

<b>L Number</b>	<b>Hits</b>	<b>S arch Text</b>	<b>DB</b>	<b>Tim stamp</b>
-	1	("20010046963").PN.	USPAT; US-P PUB	2003/01/28 13:42
-	5	((("5910307") or ("6194469") r ("6080788") or ("5990291") or ("6323018"))).PN.	USPAT; US-PGPUB	2003/01/28 12:04
-	6	((("6423365") or ("4297220") or ("4439458") or ("5266685") or ("5665783") or ("5817354"))).PN.	USPAT; US-PGPUB	2003/01/28 12:09
-	1	("6264995").PN.	USPAT; US-PGPUB	2003/01/28 12:09
-	2798	cyclooxygenase and inhibition	USPAT; US-PGPUB	2003/01/28 13:43
-	4	cyclooxygenase and genistin	USPAT; US-PGPUB	2003/01/28 13:45
-	0	(cyclooxygenase and inhibition) and rutinoside?	USPAT; US-PGPUB	2003/01/28 13:46
-	0	(cyclooxygenase and inhibition) and apiosylglucoside	USPAT; US-PGPUB	2003/01/28 13:47
-	42	(cyclooxygenase and inhibition) and glucoside	USPAT; US-PGPUB	2003/01/28 13:47

<b>L Numb r</b>	<b>Hits</b>	<b>Search T xt</b>	<b>DB</b>	<b>Tim stamp</b>
1	22	acacetin	USPAT; US-P PUB	2002/09/17 12:53
2	89	chrysin	USPAT; US-P PUB	2002/09/17 12:53
3	6	chrysin and arthritis	USPAT; US-PGPUB	2002/09/17 13:01
4	52	diosmin	USPAT; US-PGPUB	2002/09/17 13:01
5	7	diosmin and arthritis	USPAT; US-PGPUB	2002/09/17 13:02
6	13	apiin	USPAT; US-PGPUB	2002/09/17 13:05
7	91	baicalein	USPAT; US-PGPUB	2002/09/17 13:05
8	7	baicalein and arthritis	USPAT; US-PGPUB	2002/09/17 13:13
9	186	apigenin	USPAT; US-PGPUB	2002/09/17 13:14
10	27	apigenin and arthritis	USPAT; US-PGPUB	2002/09/17 13:18
11	23	diosmetin	USPAT; US-PGPUB	2002/09/17 13:35
12	29	tangeretin	USPAT; US-PGPUB	2002/09/17 13:35
13	7	tangeretin and arthritis	USPAT; US-PGPUB	2002/09/17 13:37
14	133	luteolin	USPAT; US-PGPUB	2002/09/17 13:37
15	109	luteolin and composition	USPAT; US-PGPUB	2002/09/17 13:55
16	645	rutin	USPAT; US-PGPUB	2002/09/17 13:55
17	29	rutin and alzheimer	USPAT; US-PGPUB	2002/09/17 13:57
18	497	514/27	USPAT; US-PGPUB	2002/09/17 13:57
19	10674	514/27 and arthritis or alzheimer	USPAT; US-PGPUB	2002/09/17 13:58
20	48	514/27 and arthritis	USPAT; US-PGPUB	2002/09/17 14:01
21	1307	424/439	USPAT; US-PGPUB	2002/09/17 14:02
22	107	424/439 and arthritis	USPAT; US-PGPUB	2002/09/17 14:05
23	488	426/311	USPAT; US-PGPUB	2002/09/17 14:06
24	1	426/311 and flav n	USPAT; US-P PUB	2002/09/17 14:06

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NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
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NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
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NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003

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 L1            516 WENZEL, U?/AU

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 L2            0 WENZEL, UME?/AU

=> s daniel, h?/au  
 L3            1049 DANIEL, H?/AU

=> s daniel, hannelore?/au  
 L4            136 DANIEL, HANNELORE?/AU

=> d l4 1-50

L4    ANSWER 1 OF 136       MEDLINE  
 AN    2002479234       IN-PROCESS  
 DN    22225258       PubMed ID: 12240948



TI Renal assimilation of short chain peptides: visualization of tubular peptide uptake.  
AU Groneberg David A; Doring Frank; Nickolaus Monika; **Daniel Hannelore**; Fischer Axel  
CS Dept. of Pediatric Pneumology and Immunology, Charite Campus Virchow, Humboldt-University, Berlin, Germany.  
SO PHARMACEUTICAL RESEARCH, (2002 Aug) 19 (8) 1209-14.  
Journal code: 8406521. ISSN: 0724-8741.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20020921  
Last Updated on STN: 20021213

L4 ANSWER 2 OF 136 MEDLINE  
AN 2002474301 MEDLINE  
DN 22223192 PubMed ID: 12237156  
TI Mammalian peptide transporters as targets for drug delivery.  
AU Rubio-Aliaga Isabel; **Daniel Hannelore**  
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg 2, D-85350,., Freising, Germany.  
SO TRENDS IN PHARMACOLOGICAL SCIENCES, (2002 Sep) 23 (9) 434-40. Ref: 60  
Journal code: 7906158. ISSN: 0165-6147.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200210  
ED Entered STN: 20020919  
Last Updated on STN: 20021017  
Entered Medline: 20021016

L4 ANSWER 3 OF 136 MEDLINE  
AN 2002448079 MEDLINE  
DN 22194346 PubMed ID: 12082113  
TI PEPT1 as a paradigm for membrane carriers that mediate electrogenic bidirectional transport of anionic, cationic, and neutral substrates.  
AU Kottra Gabor; Stamford Adelmair; **Daniel Hannelore**  
CS Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg 2, D-85350 Freising-Weihenstephan, Germany.. kottra@wzw.tum.edu  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Sep 6) 277 (36) 32683-91.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200210  
ED Entered STN: 20020904  
Last Updated on STN: 20030105  
Entered Medline: 20021029

L4 ANSWER 4 OF 136 MEDLINE  
AN 2002325363 MEDLINE  
DN 22063354 PubMed ID: 11959859  
TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters.  
AU Boll Michael; Foltz Martin; Rubio-Aliaga Isabel; Kottra Gabor; **Daniel**

**Hannelore**

CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical  
University of Munich, D-85350 Freising-Weiherstephan, Germany.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY; (2002 Jun 21) 277 (25) 22966-73.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF453743; GENBANK-AF453744  
EM 200207  
ED Entered STN: 20020618  
Last Updated on STN: 20030105  
Entered Medline: 20020719

L4 ANSWER 5 OF 136 MEDLINE  
AN 2002322324 MEDLINE  
DN 22060222 PubMed ID: 12065310  
TI H+-peptide cotransport in the human bile duct epithelium cell line  
SK-ChA-1.  
AU Knutner Ilka; Rubio-Aliaga Isabel; Boll Michael; Hause Gerd; **Daniel  
Hannelore**; Neubert Klaus; Brandsch Matthias  
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology,  
Halle  
D-06120, D-85350 Germany.  
SO AMERICAN JOURNAL OF PHYSIOLOGY. GASTROINTESTINAL AND LIVER PHYSIOLOGY,  
(2002 Jul) 283 (1) G222-9.  
Journal code: 100901227. ISSN: 0193-1857.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200207  
ED Entered STN: 20020615  
Last Updated on STN: 20020717  
Entered Medline: 20020716

L4 ANSWER 6 OF 136 MEDLINE  
AN 2002234690 MEDLINE  
DN 21956018 PubMed ID: 11959571  
TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is  
increased by Ca<sup>2+</sup> channel blockers.  
AU Wenzel Uwe; Kuntz Sabine; Diestel Simone; **Daniel Hannelore**  
CS Department of Food and Nutrition, Molecular Nutrition Unit, Technical  
University of Munich, D-85350 Freising-Weiherstephan, Germany.  
SO ANTIMICROBIAL AGENTS AND CHEMOTHERAPY; (2002 May) 46 (5) 1375-80.  
Journal code: 0315061. ISSN: 0066-4804.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200208  
ED Entered STN: 20020426  
Last Updated on STN: 20020807  
Entered Medline: 20020806

L4 ANSWER 7 OF 136 MEDLINE  
AN 2002201612 MEDLINE  
DN 21931954 PubMed ID: 11934684  
TI Peptide transport in the mammary gland: expression and distribution of

PEPT2 mRNA and protein.

AU Groneberg David A; Doring Frank; Theis Stephan; Nickolaus Monika; Fischer Axel; **Daniel Hannelore**

CS Dept. of Pediatric Pneumology and Immunology, Charite Campus-Virchow, Humboldt-University, D-13353 Berlin, Germany.

SO AMERICAN JOURNAL OF PHYSIOLOGY. ENDOCRINOLOGY AND METABOLISM, (2002 May) 282 (5) E1172-9.  
Journal code: 100901226. ISSN: 0193-1849.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200205

ED Entered STN: 20020406  
Last Updated on STN: 20020517  
Entered Medline: 20020516

  

L4 ANSWER 8 OF 136 MEDLINE

AN 2002142307 MEDLINE

DN 21850698 PubMed ID: 11751927

TI Synthesis and characterization of high affinity inhibitors of the H+/peptide transporter PEPT2.

AU Theis Stephan; Knutter Ilka; Hartrodt Bianka; Brandsch Matthias; Kottra Gabor; Neubert Klaus; **Daniel Hannelore**

CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Hochfeldweg 2, D-85350 Freising-Weihenstephan, Germany.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Mar 1) 277 (9) 7287-92.  
Journal code: 2985121R. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200204

ED Entered STN: 20020307  
Last Updated on STN: 20030105  
Entered Medline: 20020401

  

L4 ANSWER 9 OF 136 MEDLINE

AN 2002004080 MEDLINE

DN 21624510 PubMed ID: 11752223

TI Defining minimal structural features in substrates of the H(+)/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives.

AU Theis Stephan; Hartrodt Bianka; Kottra Gabor; Neubert Klaus; **Daniel Hannelore**

CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, Germany.

SO MOLECULAR PHARMACOLOGY, (2002 Jan) 61 (1) 214-21.  
Journal code: 0035623. ISSN: 0026-895X.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200201

ED Entered STN: 20020102  
Last Updated on STN: 20020125  
Entered Medline: 20020110

  

L4 ANSWER 10 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2003:39976 BIOSIS

DN PREV200300039976  
 TI Mammalian peptide transporters as targets for drug delivery.  
 AU Rubio-Aliaga, Isabel (1); **Daniel, Hannelore** (1)  
 CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences,  
 Technical University of Munich, Hochfeldweg 2, D-85350, Freising, Germany:  
 daniel@wzw.tum.de Germany  
 SO Trends in Pharmacological Sciences, (September 2002, 2002) Vol. 23, No.  
 9,  
 pp. 434-440. print.  
 ISSN: 0165-6147.  
 DT General Review  
 LA English

L4 ANSWER 11 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:547524 BIOSIS  
 DN PREV200200547524  
 TI Renal assimilation of short chain peptides: Visualization of tubular  
 peptide uptake.  
 AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel,  
 Hannelore**; Fischer, Axel (1)  
 CS (1) Dept. of Pediatric Pneumology and Immunology, Humboldt-University,  
 Augustenburger Platz 1, Charite Campus Virchow, MFZ Forum 4, D-13353,  
 Berlin: axel.fischer@charite.de Germany  
 SO Pharmaceutical Research (New York), (August, 2002) Vol. 19, No. 8, pp.  
 1209-1214. <http://www.kluweronline.com/issn/0724-8741>. print.  
 ISSN: 0724-8741.  
 DT Article  
 LA English

L4 ANSWER 12 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:546734 BIOSIS  
 DN PREV200200546734  
 TI PEPT1 as a paradigm for membrane carriers that mediate electrogenic  
 bidirectional transport of anionic, cationic, and neutral substrates.  
 AU Kottra, Gabor (1); Stamford, Adelmar; **Daniel, Hannelore**  
 CS (1) Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg  
 2, D-85356, Freising: kottra@wzw.tum.de Germany  
 SO Journal of Biological Chemistry, (September 6, 2002) Vol. 277, No. 36,  
 pp.  
 32683-32691. <http://www.jbc.org/>. print.  
 ISSN: 0021-9258.  
 DT Article  
 LA English

L4 ANSWER 13 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:447827 BIOSIS  
 DN PREV200200447827  
 TI H<sup>+</sup>-peptide cotransport in the human bile duct epithelium cell line  
 SK-ChA-1.  
 AU Knuetter, Ilka; Rubio-Aliaga, Isabel; Boll, Michael; Hause, Gerd;  
**Daniel, Hannelore**; Neubert, Klaus; Brandsch, Matthias (1)  
 CS (1) Membrane Transport Group, Biozentrum, Martin Luther University,  
 Halle-Wittenberg, Weinbergweg 22, D-06120, Halle:  
 brandsch@biozentrum.uni-halle.de Germany  
 SO American Journal of Physiology, (July, 2002) Vol. 283, No. 1 Part 1, pp.  
 G222-G229. <http://www.ajpcon.org>. print.  
 ISSN: 0002-9513.  
 DT Article

LA English

L4 ANSWER 14 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:431705 BIOSIS  
 DN PREV200200431705  
 TI Mammalian peptide transporters: New approaches for defining their physiological functions.  
 AU **Daniel, Hannelore (1)**; Rubio-Aliaga, Isabel (1)  
 CS (1) Department of Nutrition, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weiherstephan Germany  
 SO Journal of Physiology (Cambridge), (February, 2002) Vol. 539P, pp. 6S. <http://uk.cambridge.org/journals/phy/>. print.  
 Meeting Info.: Scientific Meeting of the Physiological Society York, UK December 17-19, 2001  
 ISSN: 0022-3751.  
 DT Conference  
 LA English

L4 ANSWER 15 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:424274 BIOSIS  
 DN PREV200200424274  
 TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters.  
 AU Boll, Michael; Foltz, Martin; Rubio-Aliaga, Isabel; Kottra, Gabor; **Daniel, Hannelore (1)**  
 CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, D-85350, Freising, Weiherstephan: [daniel@wzw.tum.de](mailto:daniel@wzw.tum.de) Germany  
 SO Journal of Biological Chemistry, (June 21, 2002) Vol. 277, No. 25, pp. 22966-22973. <http://www.jbc.org/>. print.  
 ISSN: 0021-9258.  
 DT Article  
 LA English

L4 ANSWER 16 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:337830 BIOSIS  
 DN PREV200200337830  
 TI Peptide transport in the mammary gland: Expression and distribution of PEPT2 mRNA and protein.  
 AU Groneberg, David A.; Doering, Frank; Theis, Stephan; Nickolaus, Monika; Fischer, Axel (1); **Daniel, Hannelore**  
 CS (1) Dept. of Pediatrics, Biomedical Research Center, Charite Humboldt-University, Augustenburger Platz 1, BMFZ Forum 4, D-13353, Berlin Germany  
 SO American Journal of Physiology, (May, 2002) Vol. 282, No. 5 Part 1, pp. E1172-E1179. <http://www.ajpcon.org>. print.  
 ISSN: 0002-9513.  
 DT Article  
 LA English

L4 ANSWER 17 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:273899 BIOSIS  
 DN PREV200200273899  
 TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is increased by Ca<sup>2+</sup> channel blockers.  
 AU Wenzel, Uwe; Kuntz, Sabine; Diestel, Simone; **Daniel, Hannelore (1)**  
 CS (1) Department of Food and Nutrition, Hochfeldweg 2, D-85350, Freising-Weiherstephan: [daniel@wzw.tum.de](mailto:daniel@wzw.tum.de) Germany

SO Antimicrobial Agents and Chemotherapy, (May, 2002) Vol. 46, No. 5, pp. 1375-1380. <http://aac.asm.org/>. print.  
ISSN: 0066-4804.

DT Article  
LA English

L4 ANSWER 18 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2002:217681 BIOSIS  
DN PREV200200217681  
TI Synthesis and characterization of high affinity inhibitors of the H<sup>+</sup>/peptide transporter PEPT2.  
AU Theis, Stephan; Knuetter, Ilka; Hartrodt, Bianka; Brandsch, Matthias; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore (1)**  
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weiherstephan: [daniel@wzw.tum.de](mailto:daniel@wzw.tum.de) Germany  
SO Journal of Biological Chemistry, (March 1, 2002) Vol. 277, No. 9, pp. 7287-7292. <http://www.jbc.org/>. print.  
ISSN: 0021-9258.

DT Article  
LA English

L4 ANSWER 19 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2002:130042 BIOSIS  
DN PREV200200130042  
TI Defining minimal structural features in substrates of the H<sup>+</sup>/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives.  
AU Theis, Stephan; Hartrodt, Bianka; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore (1)**  
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weiherstephan: [daniel@wzw.tum.de](mailto:daniel@wzw.tum.de) Germany  
SO Molecular Pharmacology, (January, 2002) Vol. 61, No. 1, pp. 214-221. <http://molpharm.aspetjournals.org/>. print.  
ISSN: 0026-895X.

DT Article  
LA English

L4 ANSWER 20 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:538818 BIOSIS  
DN PREV200100538818  
TI Bidirectional electrogenic transport of peptides by the proton-coupled carrier PEPT1 in *Xenopus laevis* oocytes: Its asymmetry and symmetry.  
AU Kottra, Gabor (1); **Daniel, Hannelore**  
CS (1) Institute of Nutrition, Hochfeldweg 2, D-85350, Freising-Weiherstephan: [kottra@wzw.tum.de](mailto:kottra@wzw.tum.de) Germany  
SO Journal of Physiology (Cambridge), (October 15th, 2001) Vol. 536, No. 2, pp. 495-503. print.  
ISSN: 0022-3751.

DT Article  
LA English  
SL English

L4 ANSWER 21 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:494888 BIOSIS  
DN PREV200100494888  
TI Flavonoids with epidermal growth factor-receptor tyrosine kinase inhibitory activity stimulate PEPT1-mediated cefixime uptake into human intestinal epithelial cells.  
AU Wenzel, Uwe; Kuntz, Sabine; **Daniel, Hannelore (1)**  
CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350, Freising-Weiherstephan: [daniel@pollux.weiherstephan.de](mailto:daniel@pollux.weiherstephan.de) Germany

SO Journal of Pharmacology and Experimental Therapeutics, (October, 2001)  
Vol. 299, No. 1, pp. 351-357. print.  
ISSN: 0022-3565.

DT Article  
LA English  
SL English

L4 ANSWER 22 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:475652 BIOSIS  
DN PREV200100475652  
TI Intestinal peptide transport: Ex vivo uptake studies and localization of  
peptide carrier PEPT1.  
AU Groneberg, David A. (1); Doering, Frank; Eynott, Paul R.; Fischer, Axel;  
**Daniel, Hannelore**  
CS (1) Biomedical Research Center, Dept. of Pediatrics, Charite Campus  
Virchow, Augustenburger Platz 1, 13353, Berlin Germany  
SO American Journal of Physiology, (September, 2001) Vol. 281, No. 3 Part 1,  
pp. G697-G704. print.  
ISSN: 0002-9513.

DT Article  
LA English  
SL English

L4 ANSWER 23 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:420196 BIOSIS  
DN PREV200100420196  
TI Expression of the myc/His-tagged human peptide transporter hPEPT1 in  
yeast  
for protein purification and functional analysis.  
AU Theis, Stephan; Doering, Frank; **Daniel, Hannelore** (1)  
CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences,  
Technical  
University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan:  
daniel@weihenstephan.de Germany  
SO Protein Expression and Purification, (August, 2001) Vol. 22, No. 3, pp.  
436-442. print.  
ISSN: 1046-5928.

DT Article  
LA English  
SL English

L4 ANSWER 24 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:296233 BIOSIS  
DN PREV200100296233  
TI Expression of PEPT2 peptide transporter mRNA and protein in glial cells  
of  
rat dorsal root ganglia.  
AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel,**  
**Hannelore**; Fischer, Axel (1)  
CS (1) Biomedical Research Center, Dept. of Pediatrics, Humboldt-University,  
Augustenburger Platz 1, Charite Campus Virchow, BMFZ Forum 4, D-13353,  
Berlin: axel.fischer@charite.de Germany  
SO Neuroscience Letters, (May 25, 2001) Vol. 304, No. 3, pp. 181-184.  
print.  
ISSN: 0304-3940.

DT Article  
LA English  
SL English

L4 ANSWER 25 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2001:231208 BIOSIS  
 DN PREV200100231208  
 TI A novel inhibitor of the mammalian peptide transporter PEPT1.  
 AU Knuetter, Ilka; Theis, Stephan; Hartrodt, Bianka; Born, Ilona; Brandsch, Matthias (1); **Daniel, Hannelore**; Neubert, Klaus  
 CS (1) Biozentrum, Martin-Luther-University Halle-Wittenberg, Weinbergweg 22, D-06120, Halle (Saale): brandsch@biozentrum.uni-halle.de Germany  
 SO Biochemistry, (April 10, 2001) Vol. 40, No. 14, pp. 4454-4458. print. ISSN: 0006-2960.  
 DT Article  
 LA English  
 SL English

L4 ANSWER 26 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2001:166109 BIOSIS  
 DN PREV200100166109  
 TI Nutrient transporter function studied in heterologous expression systems.  
 AU **Daniel, Hannelore** (1)  
 CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, 85350, Freising-Weißenstephan: daniel@weißenstephan.de Germany  
 SO Schulzke, Joerg-Dieter; Fromm, Michael; Riecken, Ernst-Otto; Binder, Henry  
 J.. Annals of the New York Academy of Sciences, (December, 2000) Vol. 915, pp. 184-192. Annals of the New York Academy of Sciences. Epithelial transport and barrier function: Pathomechanisms in gastrointestinal disorders. print.  
 Publisher: New York Academy of Sciences 2 East 63rd Street, New York, NY, 10021, USA.  
 Meeting Info.: Epithelial Transport and Barrier Function: Pathomechanisms in Gastrointestinal Disorders Berlin, Germany March 26-27, 1999  
 ISSN: 0077-8923. ISBN: 1-57331-259-2 (cloth), 1-57331-260-6 (paper).  
 DT Book; Conference  
 LA English  
 SL English

L4 ANSWER 27 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2001:114641 BIOSIS  
 DN PREV200100114641  
 TI Localization of the peptide transporter PEPT2 in the lung: Implications for pulmonary oligopeptide uptake.  
 AU Groneberg, David A.; Nickolaus, Monika; Springer, Jochen; Doering, Frank; **Daniel, Hannelore**; Fischer, Axel (1)  
 CS (1) Dept. of Pediatric Pneumology and Immunology, Charite-Virchow Klinikum, Humboldt-University, Augustenburger Platz 1, D-13353, Berlin: axel.fischer@charite.de Germany  
 SO American Journal of Pathology, (February, 2001) Vol. 158, No. 2, pp. 707-714. print. ISSN: 0002-9440.  
 DT Article  
 LA English  
 SL English

L4 ANSWER 28 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2001:84521 BIOSIS  
 DN PREV200100084521  
 TI PEPT1-mediated uptake of dipeptides enhances the intestinal absorption of



amino acids via transport system b0.

AU Wenzel, Uwe; Meissner, Barbara; Doering, Frank; **Daniel, Hannelore**  
(1)

CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350,  
Freising-Weißenstephan: daniel@pollux.weißenstephan.de Germany

SO Journal of Cellular Physiology, (February, 2001) Vol. 186, No. 2, pp.  
251-259. print.  
ISSN: 0021-9541.

DT Article  
LA English  
SL English

L4 ANSWER 29 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:22318 BIOSIS  
DN PREV200100022318  
TI Characterisation of the H<sup>+</sup>/peptide cotransporter of eel intestinal  
brush-border membranes.

AU Verri, Tiziano (1); Maffia, Michele; Danieli, Antonio; Herget, Martina;  
Wenzel, Uwe; **Daniel, Hannelore**; Storelli, Carlo

CS (1) Laboratory of General Physiology, Department of Biology, University  
of  
Lecce, Strada Provinciale Lecce-Monteroni, I-73100, Lecce:  
physiol@ultra5.unile.it Italy

SO Journal of Experimental Biology, (October, 2000) Vol. 203, No. 19, pp.  
2991-3001. print.  
ISSN: 0022-0949.

DT Article  
LA English  
SL English

L4 ANSWER 30 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2000:478619 BIOSIS  
DN PREV200000478619  
TI Cloning and characterization of the gene encoding the mouse peptide  
transporter PEPT2.

AU Rubio-Aliaga, Isabel; Boll, Michael; **Daniel, Hannelore** (1)

CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences,  
Technical  
University of Munich, Hochfeldweg 2, D-85350, Freising, Weißenstephan  
Germany

SO Biochemical and Biophysical Research Communications, (September 24, 2000)  
Vol. 276, No. 2, pp. 734-741. print.  
ISSN: 0006-291X.

DT Article  
LA English  
SL English

L4 ANSWER 31 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2000:465479 BIOSIS  
DN PREV200000465479  
TI Offline coupling of low-pressure anion-exchange chromatography with  
MALDI-MS to determine the elution order of human milk oligosaccharides.

AU Finke, Berndt; Mank, Marko; **Daniel, Hannelore**; Stahl, Bernd (1)

CS (1) Group Germany, Numico Research, D-61381, Friedrichsdorf Germany

SO Analytical Biochemistry, (September 10, 2000) Vol. 284, No. 2, pp.  
256-265. print.  
ISSN: 0003-2697.

DT Article  
LA English  
SL English

L4 ANSWER 32 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2000:373488 BIOSIS  
 DN PREV200000373488  
 TI Dietary flavone is a potent apoptosis inducer in human colon carcinoma cells.  
 AU Wenzel, Uwe (1); Kuntz, Sabine; Brendel, Mathias D.; **Daniel, Hannelore**  
 CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350, Freising-Weiherstephan Germany  
 SO Cancer Research, (July 15, 2000) Vol. 60, No. 14, pp. 3823-3831. print. ISSN: 0008-5472.  
 DT Article  
 LA English  
 SL English

L4 ANSWER 33 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2000:340683 BIOSIS  
 DN PREV200000340683  
 TI Human milk oligosaccharides are resistant to enzymatic hydrolysis in the upper gastrointestinal tract.  
 AU Engfer, Meike B.; Stahl, Bernd; Finke, Berndt; Sawatzki, Guenther; **Daniel, Hannelore** (1)  
 CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weiherstephan Germany  
 SO American Journal of Clinical Nutrition, (June, 2000) Vol. 71, No. 6, pp. 1589-1596. print. ISSN: 0002-9165.  
 DT Article  
 LA English  
 SL English

L4 ANSWER 34 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1999:152629 BIOSIS  
 DN PREV199900152629  
 TI Molecular cloning and functional characterization of the oligopeptide transporter PepT2 from mouse kidney.  
 AU Rubio-Aliaga, Isabel (1); Herget, Martina; Boll, Michael; **Daniel, Hannelore**  
 CS (1) Univ. Giesen, Inst. Nutr. Sci., Biochem. Unit, Wilhelmstr. 20, D-35392 Giessen Germany  
 SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78, No. 306, pp. 361-362. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences. Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany. Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997 Deutsche Akademie der Naturforscher Leopoldina . ISSN: 0369-5034. ISBN: 3-335-00574-0.  
 DT Conference  
 LA English

L4 ANSWER 35 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1999:152625 BIOSIS  
 DN PREV199900152625  
 TI H+/peptide cotransport into renal LLC-PK1 cells and its protein kinase C

dependent regulation.

AU Herget, Martina (1); Diehl, Daniela; Wenzel, Uwe; **Daniel, Hannelore**

CS (1) Univ. Giessen, Inst. Nutr. Sci., Biochem. Unit, Wilhelmstr. 20, D-35392 Giessen Germany

SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78,

No. 306, pp. 353-354. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.  
 Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.  
 Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997 Deutsche Akademie der Naturforscher Leopoldina  
 . ISSN: 0369-5034. ISBN: 3-335-00574-0.

DT Conference

LA English

L4 ANSWER 36 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1999:152611 BIOSIS

DN PREV199900152611

TI The aminoterminal region of the renal peptide transporter Pept2 determines its high substrate affinity.

AU Doering, Frank (1); Walter, Judith; Foecking, Melanie; Amasheh, Salah; **Daniel, Hannelore**

CS (1) Biochem. Unit, Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany

SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78,

No. 306, pp. 269-274. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.  
 Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.  
 Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997 Deutsche Akademie der Naturforscher Leopoldina  
 . ISSN: 0369-5034. ISBN: 3-335-00574-0.

DT Book; Conference

LA English

SL English; German

L4 ANSWER 37 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1999:152602 BIOSIS

DN PREV199900152602

TI Mechanisms of renal peptide transport.

AU **Daniel, Hannelore** (1); Doering, Frank; Herget, Martina; Wenzel, Uwe

CS (1) Biochem. Unit, Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany

SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78,

No. 306, pp. 195-200. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.  
 Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.  
 Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche

Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997  
Deutsche Akademie der Naturforscher Leopoldina  
. ISSN: 0369-5034. ISBN: 3-335-00574-0.

DT Book; Conference  
LA English  
SL English; German

L4 ANSWER 38 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1999:136372 BIOSIS  
DN PREV199900136372  
TI Regulation of the high-affinity H<sup>+</sup>/peptide cotransporter in renal LLC-PK1 cells.  
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel, Hannelore (1)**  
CS (1) Inst. Nutritional Sciences, Wilhelmstr. 20, 35392 Giessen Germany  
SO Journal of Cellular Physiology, (March, 1999) Vol. 178, No. 3, pp. 341-348.  
ISSN: 0021-9541.

DT Article  
LA English

L4 ANSWER 39 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1999:59006 BIOSIS  
DN PREV199900059006  
TI Endogenous expression of the renal high-affinity H<sup>+</sup>-peptide cotransporter in LLC-PK1 cells.  
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; **Daniel, Hannelore (1)**  
CS (1) Inst. Nutr. Sci., Wilhelmstr. 20, 35392 Giessen Germany  
SO American Journal of Physiology, (Dec., 1998) Vol. 275, No. 6 PART 1, pp. C1573-C1579.  
ISSN: 0002-9513.

DT Article  
LA English

L4 ANSWER 40 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1998:475920 BIOSIS  
DN PREV199800475920  
TI Use of the glyceraldehyde-3 phosphate dehydrogenase promoter for production of functional mammalian membrane transport proteins in the Yeast *Pichia pastoris*.  
AU Doering, Frank; Klapper, Maja; Theis, Stephan; **Daniel, Hannelore (1)**  
CS (1) Inst. Nutritional Sciences, Justus-Liebig-Univ. Giessen, Wilhelmstrasse 10, 35392 Giessen Germany  
SO Biochemical and Biophysical Research Communications, (Sept. 18, 1998) Vol. 250, No. 2, pp. 531-535.  
ISSN: 0006-291X.

DT Article  
LA English

L4 ANSWER 41 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1998:473021 BIOSIS  
DN PREV199800473021  
TI Minimal molecular determinants of substrates for recognition by the intestinal peptide transporter.  
AU Doering, Frank; Will, Jutta; Amasheh, Salah; Clauss, Wolfgang; Ahlbrecht, Hubertus; **Daniel, Hannelore (1)**

CS (1) Univ. Giessen, Inst. Nutritional Sci., Wilhelmstrasse 20, D-35392  
Giessen Germany

SO Journal of Biological Chemistry, (Sept. 4, 1998) Vol. 273, No. 36, pp.  
23211-23218.  
ISSN: 0021-9258.

DT Article

LA English

  

L4 ANSWER 42 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1998:430337 BIOSIS

DN PREV199800430337

TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast  
Pichia pastoris and applications of the yeast system for functional  
analysis.

AU Doering, Frank; Michel, Tiana; Roesel, Annette; Nickolaus, Monika;  
**Daniel, Hannelore (1)**

CS (1) Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen  
Germany

SO Molecular Membrane Biology, (April-June, 1998) Vol. 15, No. 2, pp.  
79-88.  
ISSN: 0968-7688.

DT Article

LA English

  

L4 ANSWER 43 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1998:368029 BIOSIS

DN PREV199800368029

TI Delta-aminolevulinic acid transport by intestinal and renal peptide  
transporters and its physiological and clinical implications.

AU Doering, Frank; Walter, Judith; Will, Jutta; Foecking, Melanie; Boll,  
Michael; Amasheh, Salah; Clauss, Wolfgang; **Daniel, Hannelore (1)**

CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstr. 20, 35392 Giessen  
Germany

SO Journal of Clinical Investigation, (June 15, 1998) Vol. 101, No. 12, pp.  
2761-2767.  
ISSN: 0021-9738.

DT Article

LA English

  

L4 ANSWER 44 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1998:204249 BIOSIS

DN PREV199800204249

TI Characterization of peptide transport mediated by Pept2 in renal LLC-PK1  
cells.

AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel,  
Hannelore**

CS Univ. Giessen, Inst. Nutr. Sci., Biochem. Unit, D-35392 Giessen Germany

SO FASEB Journal, (March 20, 1998) Vol. 12, No. 5, pp. A1015.  
Meeting Info.: Annual Meeting of the Professional Research Scientists on  
Experimental Biology 98, Part II San Francisco, California, USA April  
18-22, 1998 Federation of American Societies for Experimental Biology  
. ISSN: 0892-6638.

DT Conference

LA English

  

L4 ANSWER 45 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1997:522515 BIOSIS

DN PREV199799821718

TI Electrophysiological analysis of the function of the mammalian renal  
peptide transporter expressed in Xenopus laevis oocytes.

AU Amasheh, Salah; Wenzel, Uwe; Weber, Wolf-Michael; Clauss, Wolfgang;  
**Daniel, Hannelore (1)**  
 CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, D-35392  
 Giessen Germany  
 SO Journal of Physiology (Cambridge), (1997) Vol. 504, No. 1, pp. 169-174.  
 ISSN: 0022-3751.  
 DT Article  
 LA English

L4 ANSWER 46 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1997:408815 BIOSIS  
 DN PREV199799715018  
 TI Cellular and molecular mechanisms of renal peptide transport.  
 AU **Daniel, Hannelore (1)**; Herget, Martina  
 CS (1) Biochemistry Nutr. Unit, Inst. Nutr. Sci., Univ. Giessen,  
 Wilhelmstrasse 20, D-35392 Giessen Germany  
 SO American Journal of Physiology, (1997) Vol. 273, No. 1 PART 2, pp.  
 F1-F8.  
 ISSN: 0002-9513.  
 DT General Review  
 LA English

L4 ANSWER 47 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1997:199640 BIOSIS  
 DN PREV199799498843  
 TI Expression and functional characterization of the mammalian intestinal  
 peptide transporter PepT1 in the methylotrophic yeast *Pichia pastoris*.  
 AU Doring, Frank; Theis, Stephan; **Daniel, Hannelore (1)**  
 CS (1) Inst. Nutr. Sci., Justus-Liebig-University Giessen, Wilhelmstrasse  
 20,  
 D-35392 Giessen Germany  
 SO Biochemical and Biophysical Research Communications, (1997) Vol. 232, No.  
 3, pp. 656-662.  
 ISSN: 0006-291X.  
 DT Article  
 LA English

L4 ANSWER 48 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1997:151110 BIOSIS  
 DN PREV199799450313  
 TI First insights into the operational mode of epithelial peptide  
 transporters.  
 AU **Daniel, Hannelore**  
 CS Inst. Nutr. Sci., Univ. Giessen, D-35392 Giessen Germany  
 SO Journal of Physiology (Cambridge), (1997) Vol. 498, No. 3, pp. 561.  
 ISSN: 0022-3751.  
 DT Journal; Article  
 LA English

L4 ANSWER 49 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1997:82220 BIOSIS  
 DN PREV199799373933  
 TI Functional analysis of a chimeric mammalian peptide transporter derived  
 from the intestinal and renal isoforms.  
 AU Doering, Fran; Dorn, Daniela; Bachfisch, Ulla; Amasheh, Salah; Haget,  
 Martina; **Daniel, Hannelore**  
 CS Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, D-35392 Giessen  
 Germany  
 SO Journal of Physiology (Cambridge), (1996) Vol. 497, No. 3, pp. 773-779.  
 ISSN: 0022-3751.

DT Article  
LA English

L4 ANSWER 50 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1996:434958 BIOSIS  
DN PREV199699148564  
TI The peptide-based thrombin inhibitor CRC 220 is a new substrate of the basolateral rat liver organic anion-transporting polypeptide 380-384.  
AU Eckhardt, Uta; Horz, Juergen A.; Petzinger, Ernst (1); Stueber, Werner; Reers, Martin; Dickneite, Gerhard; **Daniel, Hannelore**; Wagener, Meike; Hagenbuch, Bruno; Stieger, Bruno; Meier, Peter J.  
CS (1) Inst. Pharmacol. Toxicol., Justus-Liebig-University, Frankfurter Strasse 107, D-35392 Giessen Germany  
SO Hepatology, (1996) Vol. 24, No. 2, pp. 380-384.  
ISSN: 0270-9139.  
DT Article  
LA English

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L4 ANSWER 51 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1996:288449 BIOSIS  
DN PREV199699010805  
TI Transport characteristics of differently charged cephalosporin antibiotics  
in oocytes expressing the cloned intestinal peptide transporter PepT1 and in human intestinal Caco-2 cells.  
AU Wenzel, Uwe; Gebert, Ingo; Weintraut, Horst; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore** (1)  
CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, 35392 Giessen Germany  
SO Journal of Pharmacology and Experimental Therapeutics, (1996) Vol. 277, No. 2, pp. 831-839.  
ISSN: 0022-3565.  
DT Article  
LA English

L4 ANSWER 52 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1996:32618 BIOSIS  
DN PREV199698604753  
TI Stereoselective uptake of beta-lactam antibiotics by the intestinal peptide transporter.  
AU Wenzel, Uwe; Thwaites, David T.; **Daniel, Hannelore** (1)  
CS (1) Inst. Nutritional Sci., University Giessen, Wilhelmstrasse 20, 35392 Giessen Germany  
SO British Journal of Pharmacology, (1995) Vol. 116, No. 7, pp. 3021-3027.  
ISSN: 0007-1188.  
DT Article  
LA English

L4 ANSWER 53 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1995:455599 BIOSIS  
DN PREV199598469899  
TI Selective effect of zinc on uphill transport of oligopeptides into kidney brush border membrane vesicles.  
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)  
CS (1) Clinical Nutrition Research Unit, Montefiore Univ. Hosp., Univ. Pittsburgh Med. Center, 200 Lothrop St., Pittsburgh, PA 15213-2582 USA  
SO FASEB Journal, (1995) Vol. 9, No. 11, pp. 1112-1117.

ISSN: 0892-6638.

DT Article  
LA English

L4 ANSWER 54 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1995:182794 BIOSIS  
DN PREV199598197094  
TI Target size analysis of the peptide/H<sup>+</sup>-symporter in kidney brush-border membranes.  
AU Boll, Michael; **Daniel, Hannelore** (1)  
CS (1) Inst. Nutr. Sci., Biochem. Nutr. Unit, Justus-Liebig-Univ. Giessen, Wilhelmstrasse 20, 35392 Giessen Germany  
SO Biochimica et Biophysica Acta, (1995) Vol. 1233, No. 2, pp. 145-152.  
ISSN: 0006-3002.

DT Article  
LA English

L4 ANSWER 55 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1995:74687 BIOSIS  
DN PREV199598088987  
TI Transport of Cefadroxil in Rat Kidney Brush-border Membranes is Mediated by Two Electrogenic H<sup>+</sup>-Coupled Systems.  
AU Ries, Michela; Wenzel, Uwe; **Daniel, Hannelore** (1)  
CS (1) Biochem. Nutr. Unit, Inst. Nutr. Sci., Wilhelmstrasse 20, 35392 Giessen Germany  
SO Journal of Pharmacology and Experimental Therapeutics, (1994) Vol. 271, No. 3, pp. 1327-1333.  
ISSN: 0022-3565.

DT Article  
LA English

L4 ANSWER 56 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1994:413894 BIOSIS  
DN PREV199497426894  
TI Functional separation of dipeptide transport and hydrolysis in kidney brush border membrane vesicles.  
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)  
CS (1) Clin. Nutr. Res. Unit, Montefiore Univ. Hosp., Univ. Pittsburgh Med. Cent., 200 Lothrop St., Pittsburgh, PA 15213-2582 USA  
SO FASEB Journal, (1994) Vol. 8, No. 10, pp. 753-759.  
ISSN: 0892-6638.

DT General Review  
LA English

L4 ANSWER 57 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1994:13956 BIOSIS  
DN PREV199497026956  
TI Transport of beta-lactam antibiotics in kidney brush border membrane: Determinants of their affinity for the oligopeptide/H<sup>+</sup> symporter.  
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)  
CS (1) Clin. Nutr. Res. Unit, Montefiore Univ. Hosp., UPMC, 220 Lothrop St., Pittsburgh, PA 15213-2582 USA  
SO Journal of Clinical Investigation, (1993) Vol. 92, No. 5, pp. 2215-2223.  
ISSN: 0021-9738.

DT Article  
LA English

L4 ANSWER 58 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1993:180403 BIOSIS  
DN PREV199344088003



TI Removal of glycylglutamine from plasma by individual tissues: Mechanism and impact on amino acid fluxes in postabsorption and starvation.  
AU Adibi, Siamak A. (1); Lochs, Herbert; Abumrad, Naji N.; **Daniel, Hannelore**; Vazquez, Jorge A.  
CS (1) Clinical Nutrition Res. Unit, Montefiore University Hospital, 3459 Fifth Ave., Pittsburgh, PA 15213 USA  
SO Journal of Nutrition, (1993) Vol. 123, No. SUPPL. 2, pp. 325-331. Meeting Info.: American Institute of Nutrition Annual Meeting Anaheim, California, USA April 5-9, 1992  
ISSN: 0022-3166.  
DT Article  
LA English

L4 ANSWER 59 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:59054 CAPLUS  
TI Diet, gene expression, and apoptosis: clues to cancer prevention?  
AU **Daniel, Hannelore**; Wenzel, Uwe  
CS Department of Food and Nutrition Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, Germany  
SO Nestle Nutrition Workshop Series, Pediatric Program (2003), 50 (Genetic Expression and Nutrition), 239-262  
CODEN: NNWSAQ  
PB Lippincott Williams & Wilkins  
DT Journal  
LA English

L4 ANSWER 60 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:720539 CAPLUS  
DN 138:1391  
TI PEPT1 as a Paradigm for Membrane Carriers That Mediate Electrogenic Bidirectional Transport of Anionic, Cationic, and Neutral Substrates  
AU Kottra, Gabor; Stamford, Adelmair; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Journal of Biological Chemistry (2002), 277(36), 32683-32691  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 61 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:701540 CAPLUS  
TI Mammalian peptide transporters as targets for drug delivery  
AU Rubio-Aliaga, Isabel; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Freising, D-85350, Germany  
SO Trends in Pharmacological Sciences (2002), 23(9), 434-440  
CODEN: TPHSDY; ISSN: 0165-6147  
PB Elsevier Science Ltd.  
DT Journal  
LA English

RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 62 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:635323 CAPLUS  
TI Renal Assimilation of Short Chain Peptides: Visualization of Tubular Peptide Uptake

AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel, Hannelore**; Fischer, Axel  
CS Department of Pediatric Pneumology and Immunology, Humboldt-University, Berlin, D-13353, Germany  
SO Pharmaceutical Research (2002), 19(8), 1209-1214  
CODEN: PHREEB; ISSN: 0724-8741  
PB Kluwer Academic/Plenum Publishers  
DT Journal  
LA English  
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 63 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:544877 CAPLUS  
DN 137:292077  
TI H<sup>+</sup>-peptide cotransport in the human bile duct epithelium cell line SK-ChA-1  
AU Knutter, Ilka; Rubio-Aliaga, Isabel; Boll, Michael; Hause, Gerd; **Daniel, Hannelore**; Neubert, Klaus; Brandsch, Matthias  
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology and Biozentrum of the Martin Luther University Halle-Wittenberg, Halle, D-06120, Germany  
SO American Journal of Physiology (2002), 283(1, Pt. 1), G222-G229  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 64 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:505812 CAPLUS  
DN 137:307728  
TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters  
AU Boll, Michael; Foltz, Martin; Rubio-Aliaga, Isabel; Kottra, Gabor; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Journal of Biological Chemistry (2002), 277(25), 22966-22973  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English  
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 65 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:371710 CAPLUS  
DN 137:152889  
TI Peptide transport in the mammary gland: expression and distribution of PEPT2 mRNA and protein  
AU Groneberg, David A.; Doring, Frank; Theis, Stephan; Nickolaus, Monika; Fischer, Axel; **Daniel, Hannelore**  
CS Dept. of Pediatric Pneumology and Immunology, Charite, Humboldt-University, Berlin, D-13353, Germany  
SO American Journal of Physiology (2002), 282(5, Pt. 1), E1172-E1179  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal

LA English

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 66 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:316741 CAPLUS  
DN 137:241645  
TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is increased by Ca<sup>2+</sup> channel blockers  
AU Wenzel, Uwe; Kuntz, Sabine; Diestel, Simone; **Daniel, Hannelore**  
CS Department of Food and Nutrition, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Antimicrobial Agents and Chemotherapy (2002), 46(5), 1375-1380  
CODEN: AMACCQ; ISSN: 0066-4804  
PB American Society for Microbiology  
DT Journal  
LA English

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 67 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:209611 CAPLUS  
DN 136:336800  
TI Synthesis and characterization of high affinity inhibitors of the H<sup>+</sup>/peptide transporter PEPT2  
AU Theis, Stephan; Knutter, Ilka; Hartrodt, Bianka; Brandsch, Matthias; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Journal of Biological Chemistry (2002), 277(9), 7287-7292  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 68 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:165155 CAPLUS  
DN 137:231951  
TI Special Issue: Acid-Base Metabolism. Nutrition, Health, Disease. [In: Eur. J. Nutr., 2001; 40(5)]  
AU Vormann, Juergen; **Daniel, Hannelore**; Editors  
CS Germany  
SO (2001) Publisher: (Steinkopff Verlag, Darmstadt, Germany), 72 pp.  
DT Book  
LA English

L4 ANSWER 69 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:5323 CAPLUS  
DN 136:195844  
TI Defining minimal structural features in substrates of the H<sup>+</sup>/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives  
AU Theis, Stephan; Hartrodt, Bianka; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, Germany  
SO Molecular Pharmacology (2002), 61(1), 214-221  
CODEN: MOPMA3; ISSN: 0026-895X

PB American Society for Pharmacology and Experimental Therapeutics  
DT Journal  
LA English  
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 70 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:888295 CAPLUS  
DN 136:82998  
TI Bidirectional electrogenic transport of peptides by the proton-coupled carrier PEPT1 in *Xenopus laevis* oocytes: its asymmetry and symmetry  
AU Kottra, Gabor; **Daniel, Hannelore**  
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Journal of Physiology (Cambridge, United Kingdom) (2001), 536(2), 495-503  
CODEN: JPHYA7; ISSN: 0022-3751  
PB Cambridge University Press  
DT Journal  
LA English  
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 71 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:711680 CAPLUS  
DN 136:112583  
TI Flavonoids with epidermal growth factor-receptor tyrosine kinase inhibitory activity stimulate PEPT1-mediated cefixime uptake into human intestinal epithelial cells  
AU Wenzel, Uwe; Kuntz, Sabine; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, Germany  
SO Journal of Pharmacology and Experimental Therapeutics (2001), 299(1), 351-357  
CODEN: JPETAB; ISSN: 0022-3565  
PB American Society for Pharmacology and Experimental Therapeutics  
DT Journal  
LA English  
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 72 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:694446 CAPLUS  
DN 136:3330  
TI Intestinal peptide transport: ex vivo uptake studies and localization of peptide carrier PEPT1  
AU Groneberg, David A.; Doring, Frank; Eynott, Paul R.; Fischer, Axel; **Daniel, Hannelore**  
CS Department of Pediatrics, Humboldt University, Berlin, 13353, Germany  
SO American Journal of Physiology (2001), 281(3, Pt. 1), G697-G704  
CODEN: AJPHAP; ISSN: 0002-9513  
PB American Physiological Society  
DT Journal  
LA English  
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 73 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:626002 CAPLUS  
DN 135:185492  
TI Flavones for the treatment of COX-2 and/or NF.kappa.B-mediated diseases

IN Wenzel, Uwe; **Daniel, Hannelore**  
PA Basf A. -G., Germany  
SO Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001233768	A2	20010828	JP 2001-49370	20010223
	EP 1127572	A2	20010829	EP 2001-103200	20010212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2001046963	A1	20011129	US 2001-782306	20010214
	CN 1318371	A	20011024	CN 2001-116513	20010225
PRAI	US 2000-185179P	P	20000225		
OS	MARPAT 135:185492				

L4 ANSWER 74 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:558455 CAPLUS  
DN 135:192452  
TI Expression of the myc/his-tagged human peptide transporter hPEPT1 in yeast  
for protein purification and functional analysis  
AU Theis, Stephan; Doring, Frank; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany  
SO Protein Expression and Purification (2001), 22(3), 436-442  
CODEN: PEXPEJ; ISSN: 1046-5928  
PB Academic Press  
DT Journal  
LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 75 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:172549 CAPLUS  
DN 134:362946  
TI A Novel Inhibitor of the Mammalian Peptide Transporter PEPT1  
AU Knuetter, Ilka; Theis, Stephan; Hartrodt, Bianka; Born, Ilona; Brandsch, Matthias; **Daniel, Hannelore**; Neubert, Klaus  
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology, and Biozentrum, Martin-Luther-University Halle-Wittenberg, Halle, Germany  
SO Biochemistry (2001), 40(14), 4454-4458  
CODEN: BICHAW; ISSN: 0006-2960  
PB American Chemical Society  
DT Journal  
LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 76 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:151568 CAPLUS  
DN 135:164964  
TI Localization of the peptide transporter PEPT2 in the lung: Implications for pulmonary oligopeptide uptake  
AU Groneberg, David A.; Nickolaus, Monika; Springer, Jochen; Doring, Frank; **Daniel, Hannelore**; Fischer, Axel  
CS Institute of Anatomy and Cell Biology, University of Giessen, Giessen, Germany

SO American Journal of Pathology (2001), 158(2), 707-714  
CODEN: AJPAA4; ISSN: 0002-9440  
PB American Society for Investigative Pathology  
DT Journal  
LA English  
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 77 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:70441 CAPLUS  
DN 134:176004  
TI Nutrient transporter function studied in heterologous expression systems  
AU **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Technical University of Munich,  
Freising-Weihenstephan, 85350, Germany  
SO Annals of the New York Academy of Sciences (2000), 915(Epithelial  
Transport and Barrier Function), 184-192  
CODEN: ANYAA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal; General Review  
LA English  
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 78 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:40673 CAPLUS  
DN 134:176091  
TI PEPT1-mediated uptake of dipeptides enhances the intestinal absorption of  
amino acids via transport system b0,+  
AU Wenzel, Uwe; Meissner, Barbara; Doring, Frank; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical  
University of Munich, Freising-Weihenstephan, Germany  
SO Journal of Cellular Physiology (2001), 186(2), 251-259  
CODEN: JCLLAX; ISSN: 0021-9541  
PB Wiley-Liss, Inc.  
DT Journal  
LA English  
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 79 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:859956 CAPLUS  
DN 135:243  
TI Food derived flavonoids that affect proliferation, differentiation and  
apoptosis in human colon carcinoma cells and their mode of action  
AU Wenzel, Uwe; Kuntz, Sabine; Storcksdieck, Stefan; De Sousa, Ulrike  
Jambor;  
**Daniel, Hannelore**  
CS Germany  
SO Carcinogenic and Anticarcinogenic Factors in Food, Symposium  
["Carcinogenic/Anticarcinogenic Factors in Food: Novel Concepts?"], 3rd,  
Kaiserslautern, Germany, Oct. 4-7, 1998 (2000), Meeting Date 1998,  
513-518. Editor(s): Eisenbrand, Gerhard. Publisher: Wiley-VCH Verlag  
GmbH, Weinheim, Germany.  
CODEN: 69ARS4  
DT Conference  
LA English  
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 80 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:838609 CAPLUS  
DN 134:144726  
TI Characterization of the H<sup>+</sup>/peptide cotransporter of eel intestinal brush-border membranes  
AU Verri, Tiziano; Maffia, Michele; Danieli, Antonio; Herget, Martina; Wenzel, Uwe; **Daniel, Hannelore**; Storelli, Carlo  
CS Laboratory of General Physiology, Department of Biology, University of Lecce, Lecce, I-73100, Italy  
SO Journal of Experimental Biology (2000), 203(19), 2991-3001  
CODEN: JEBIAM; ISSN: 0022-0949  
PB Company of Biologists Ltd.  
DT Journal  
LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 81 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:717876 CAPLUS  
DN 134:188824  
TI Cloning and characterization of the gene encoding the mouse peptide transporter PEPT2  
AU Rubio-Aliaga, Isabel; Boll, Michael; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising, D-85350, Germany  
SO Biochemical and Biophysical Research Communications (2000), 276(2), 734-741  
CODEN: BBRCA9; ISSN: 0006-291X  
PB Academic Press  
DT Journal  
LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 82 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:605310 CAPLUS  
DN 134:39076  
TI Off line Coupling of Low-Pressure Anion-Exchange Chromatography with MALDI-MS to Determine the Elution Order of Human Milk Oligosaccharides  
AU Finke, Berndt; Mank, Marko; **Daniel, Hannelore**; Stahl, Bernd  
CS Numico Research, Group Germany, Friedrichsdorf, D-61381, Germany  
SO Analytical Biochemistry (2000), 284(2), 256-265  
CODEN: ANBCA2; ISSN: 0003-2697  
PB Academic Press  
DT Journal  
LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 83 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:525757 CAPLUS  
DN 133:222005  
TI Dietary flavone is a potent apoptosis inducer in human colon carcinoma cells  
AU Wenzel, Uwe; Kuntz, Sabine; Brendel, Mathias D.; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany  
SO Cancer Research (2000), 60(14), 3823-3831  
CODEN: CNREA8; ISSN: 0008-5472  
PB American Association for Cancer Research

DT Journal  
LA English  
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 84 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:395421 CAPLUS  
DN 133:149906  
TI Human milk oligosaccharides are resistant to enzymatic hydrolysis in the upper gastrointestinal tract  
AU Engfer, Meike B.; Stahl, Bernd; Finke, Berndt; Sawatzki, Guenther; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, University of Giessen, Germany  
SO American Journal of Clinical Nutrition (2000), 71(6), 1589-1596  
CODEN: AJCNAC; ISSN: 0002-9165  
PB American Society for Clinical Nutrition  
DT Journal  
LA English  
RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 85 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:441705 CAPLUS  
DN 131:213279  
TI Analysis of High-Molecular-Weight Oligosaccharides from Human Milk by Liquid Chromatography and MALDI-MS  
AU Finke, Berndt; Stahl, Bernd; Pfenninger, Anja; Karas, Michael; **Daniel, Hannelore**; Sawatzki, Guenther  
CS Milupa Research, Milupa GmbH Company KG, Friedrichsdorf, D-61381, Germany  
SO Analytical Chemistry (1999), 71(17), 3755-3762  
CODEN: ANCHAM; ISSN: 0003-2700  
PB American Chemical Society  
DT Journal  
LA English  
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 86 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:183449 CAPLUS  
DN 130:181786  
TI Hormonally Active Agents in Food: Symposium, held at University of Kaiserslautern, 6-9 October 1996.  
AU Eisenbrand, Gerhard; **Daniel, Hannelore**; Dayan, Anthony David; Elias, Peter Stefan; Grunow, Werner; Kemper, Fritz H.; Loeser, Eckhard; Metzler, Manfred; Schlatter, Josef  
CS Germany  
SO (1998) Publisher: (Wiley-VCH Verlag GmbH, Weinheim, Germany), 263 pp.  
DT Book  
LA English

L4 ANSWER 87 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:123837 CAPLUS  
DN 130:320600  
TI Regulation of the high-affinity H<sup>+</sup>/peptide cotransporter in renal LLC-PK1 cells  
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany  
SO Journal of Cellular Physiology (1999), 178(3), 341-348



CODEN: JCLLAX; ISSN: 0021-9541

PB Wiley-Liss, Inc.

DT Journal

LA English

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 88 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1999:15564 CAPLUS

DN 130:151377

TI Endogenous expression of the renal high-affinity H<sup>+</sup>-peptide cotransporter  
in LLC-PK1 cells

AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; **Daniel, Hannelore**

CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392,  
Germany

SO American Journal of Physiology (1998), 275(6, Pt. 1), C1573-C1579

CODEN: AJPHAP; ISSN: 0002-9513

PB American Physiological Society

DT Journal

LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 89 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:628794 CAPLUS

DN 130:951

TI Use of the glyceraldehyde-3-phosphate dehydrogenase promoter for  
production of functional mammalian membrane transport proteins in the  
yeast *Pichia pastoris*

AU Doring, Frank; Klapper, Maja; Theis, Stephan; **Daniel, Hannelore**

CS Institute of Nutritional Sciences, University of Giessen, Giessen,  
D-35392, Germany

SO Biochemical and Biophysical Research Communications (1998), 250(2),  
531-535

CODEN: BBRCA9; ISSN: 0006-291X

PB Academic Press

DT Journal

LA English

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 90 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:592721 CAPLUS

DN 129:312693

TI Minimal molecular determinants of substrates for recognition by the  
intestinal peptide transporter

AU Doring, Frank; Will, Jutta; Amasheh, Salah; Clauss, Wolfgang; Ahlbrecht,  
Hubertus; **Daniel, Hannelore**

CS Inst. Nutritional Sci., Univ. Giessen, Giessen, D-35392, Germany

SO Journal of Biological Chemistry (1998), 273(36), 23211-23218

CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 91 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:546469 CAPLUS

DN 129:273576

TI The aminoterminal region of the renal peptide transporter Pept2  
determines  
its high substrate affinity

AU Doring, Frank; Walter, Judith; Focking, Melanie; Amasheh, Salah;  
**Daniel, Hannelore**

CS Biochemistry Unit, Inst. Nutritional Sciences, Univ. Giessen, D-35392,  
Germany

SO Nova Acta Leopoldina (1998), 78(306, Renal and Hepatic  
Transport--Similarities and Differences), 269-274  
CODEN: NOALA4; ISSN: 0369-5034

PB Deutsche Akademie der Naturforscher Leopoldina

DT Journal

LA German

  

L4 ANSWER 92 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:546093 CAPLUS

DN 129:288035

TI Mechanisms of renal peptide transport

AU **Daniel, Hannelore**; Doring, Frank; Herget, Martina; Wenzel, Uwe

CS Biochemistry Unit, Inst. Nutritional Sciences, Univ. Giessen, Giessen,  
D-35392, Germany

SO Nova Acta Leopoldina (1998), 78(306, Renal and Hepatic  
Transport--Similarities and Differences), 195-200  
CODEN: NOALA4; ISSN: 0369-5034

PB Deutsche Akademie der Naturforscher Leopoldina

DT Journal; General Review

LA English

  

L4 ANSWER 93 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:533878 CAPLUS

DN 129:215745

TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast  
Pichia pastoris and applications of the yeast system for functional  
analysis

AU Doring, Frank; Michel, Tiana; Rosel, Annette; Nickolaus, Monika;  
**Daniel, Hannelore**

CS Institute of Nutritional Sciences, University of Giessen, Giessen,  
D-35392, Germany

SO Molecular Membrane Biology (1998), 15(2), 79-88  
CODEN: MMEBE7; ISSN: 0968-7688

PB Taylor & Francis Ltd.

DT Journal

LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

  

L4 ANSWER 94 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1998:400187 CAPLUS

DN 129:94859

TI Delta-aminolevulinic acid transport by intestinal and renal peptide  
transporters and its physiological and clinical implications

AU Doring, Frank; Walter, Judith; Will, Jutta; Focking, Melanie; Boll,  
Michael; Amasheh, Salah; Clauss, Wolfgang; **Daniel, Hannelore**

CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392,  
Germany

SO Journal of Clinical Investigation (1998), 101(12), 2761-2767  
CODEN: JCINAO; ISSN: 0021-9738

PB Rockefeller University Press

DT Journal

LA English

RE.CNT 38      THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4    ANSWER 95 OF 136    CAPLUS    COPYRIGHT 2003 ACS  
AN    1998:117614    CAPLUS  
DN    128:215682  
TI    Intestinal and renal transport of peptides at the cellular and molecular  
      level  
AU    **Daniel, Hannelore**; Herget, Martina  
CS    Biochemistry of Nutrition Unit, Institute of Nutritional Sciences,  
      University of Giessen, Giessen, D-35392, Germany  
SO    Portland Press Proceedings (1998), 11(Peptides in Mammalian Protein  
      Metabolism), 91-102  
      CODEN: POPPEF; ISSN: 0966-4068  
PB    Portland Press Ltd.  
DT    Journal; General Review  
LA    English

L4    ANSWER 96 OF 136    CAPLUS    COPYRIGHT 2003 ACS  
AN    1997:706839    CAPLUS  
DN    128:12119  
TI    Electrophysiological analysis of the function of the mammalian renal  
      peptide transporter expressed in Xenopus laevis oocytes  
AU    Amasheh, Salah; Wenzel, Uwe; Weber, Wolf-Michael; Clauss, Wolfgang;  
      **Daniel, Hannelore**  
CS    Institute of Animal Physiology, University of Giessen, Giessen, D-35392,  
      Germany  
SO    Journal of Physiology (Cambridge, United Kingdom) (1997), 504(1), 169-174  
      CODEN: JPHYA7; ISSN: 0022-3751  
PB    Cambridge University Press  
DT    Journal  
LA    English

L4    ANSWER 97 OF 136    CAPLUS    COPYRIGHT 2003 ACS  
AN    1997:514924    CAPLUS  
DN    127:218116  
TI    Cellular and molecular mechanisms of renal peptide transport  
AU    **Daniel, Hannelore**; Herget, Martina  
CS    Biochemistry of Nutrition Unit, Institute of Nutritional Sciences,  
      University of Giessen, Giessen, D-35392, Germany  
SO    American Journal of Physiology (1997), 273(1, Pt. 2), F1-F8  
      CODEN: AJPHAP; ISSN: 0002-9513  
PB    American Physiological Society  
DT    Journal; General Review  
LA    English

L4    ANSWER 98 OF 136    CAPLUS    COPYRIGHT 2003 ACS  
AN    1997:413914    CAPLUS  
DN    127:36313  
TI    Apparatus and procedure for electrodialysis  
IN    Sawatzki, Guenther; **Daniel, Hannelore**  
PA    Milupa Ag, Germany  
SO    Ger., 8 pp.  
      CODEN: GWXXAW  
DT    Patent  
LA    German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19536668	C1	19970507	DE 1995-19536668	19950930

PRAI DE 1995-19536668

19950930

- L4 ANSWER 99 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:260131 CAPLUS  
DN 126:326974  
TI Expression and functional characterization of the mammalian intestinal peptide transporter PepT1 in the methylotrophic yeast *Pichia pastoris*  
AU Doering, Frank; Theis, Stephan; **Daniel, Hannelore**  
CS Inst. Nutritional Sci., Univ. Giessen, Giessen, D-35392, Germany  
SO Biochemical and Biophysical Research Communications (1997), 232(3), 656-662  
CODEN: BBRCA9; ISSN: 0006-291X  
PB Academic  
DT Journal  
LA English
- L4 ANSWER 100 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:253061 CAPLUS  
DN 126:262313  
TI The peptide-based thrombin inhibitor CRC 220 is a new substrate of the basolateral rat liver organic anion - transporting polypeptide  
AU Eckhardt, Uta; Horz, Juergen A.; Petzinger, Ernst; Stueber, Werner; Reers, Martin; Dickneite, Gerhard; **Daniel, Hannelore**; Wagener, Meike; Hagenbuch, Bruno; et al.  
CS Institute of Pharmacology and Toxicology, Justus-Liebig-University, Giessen, D-35392, Germany  
SO Hepatology (Philadelphia) (1996), 24(2), 380-384  
CODEN: HPTLD9; ISSN: 0270-9139  
PB Saunders  
DT Journal  
LA English
- L4 ANSWER 101 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:153171 CAPLUS  
DN 126:221801  
TI First insights into the operational mode of epithelial peptide transporters  
AU **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany  
SO Journal of Physiology (Cambridge, United Kingdom) (1997), 498(3), 561  
CODEN: JPHYA7; ISSN: 0022-3751  
PB Cambridge University Press  
DT Journal; General Review  
LA English
- L4 ANSWER 102 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:24565 CAPLUS  
DN 126:114771  
TI Functional analysis of a chimeric mammalian peptide transporter derived from the intestinal and renal isoforms  
AU Doering, Frank; Dorn, Daniela; Bachfischer, Ulla; Amasheh, Salah; Herget, Martina; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany  
SO Journal of Physiology (Cambridge, United Kingdom) (1996), 497(3), 773-779  
CODEN: JPHYA7; ISSN: 0022-3751  
PB Cambridge University Press  
DT Journal

LA English

L4 ANSWER 103 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1996:293240 CAPLUS

DN 125:253

TI Transport characteristics of differently charged cephalosporin antibiotics

in oocytes expressing the cloned intestinal peptide transporter PepT1 and in human intestinal Caco-2 cells

AU Wenzel, Uwe; Gebert, Ingo; Weintraut, Horzt; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore**

CS Inst. Nutrit. Sci., Univ. Giessen, Giessen, 35392, Germany

SO Journal of Pharmacology and Experimental Therapeutics (1996), 277(2), 831-839

CODEN: JPETAB; ISSN: 0022-3565

PB Williams & Wilkins

DT Journal

LA English

L4 ANSWER 104 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1995:977307 CAPLUS

DN 124:75559

TI Stereoselective uptake of .beta.-lactam antibiotics by the intestinal peptide transporter

AU Wenzel, Uwe; Thwaites, David T.; **Daniel, Hannelore**

CS Inst. of Nutritional Sci., Univ. of Giessen, Giessen, 35392, Germany

SO British Journal of Pharmacology (1995), 116(7), 3021-7

CODEN: BJPCBM; ISSN: 0007-1188

PB Stockton

DT Journal

LA English

L4 ANSWER 105 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1995:760551 CAPLUS

DN 123:165792

TI Selective effect of zinc on uphill transport of oligopeptides into kidney brush border membrane vesicles

AU **Daniel, Hannelore**; Adibi, Siamak A.

CS Institute Nutritional Sciences, University Giessen, Giessen, 35392, Germany

SO FASEB Journal (1995), 9(11), 1112-17

CODEN: FAJOEC; ISSN: 0892-6638

PB Federation of American Societies for Experimental Biology

DT Journal

LA English

L4 ANSWER 106 OF 136 CAPLUS COPYRIGHT 2003 ACS

AN 1995:352311 CAPLUS

DN 122:181391

TI Target size analysis of the peptide/H<sup>+</sup>-symporter in kidney brush-border membranes

AU Boll, Michael; **Daniel, Hannelore**

CS Institute of Nutritional Sciences, Biochemistry of Nutrition Unit, Justus-Liebig-University Giessen, Wilhelmstrasse 20, Giessen, 35392, Germany

SO Biochimica et Biophysica Acta (1995), 1233(2), 145-52

CODEN: BBACAQ; ISSN: 0006-3002

PB Elsevier

DT Journal

LA English

L4 ANSWER 107 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1995:273664 CAPLUS  
DN 122:45629  
TI Transport of cefadroxil in rat kidney brush-border membranes is mediated  
by two electrogenic H<sup>+</sup>-coupled systems  
AU Ries, Michaela; Wenzel, Uwe; **Daniel, Hannelore**  
CS Institute of Nutritional Sciences, Justus-Liebig-University, Giessen,  
35392, Germany  
SO Journal of Pharmacology and Experimental Therapeutics (1994), 271(3),  
1327-33  
CODEN: JPETAB; ISSN: 0022-3565  
PB Williams & Wilkins  
DT Journal  
LA English

L4 ANSWER 108 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:573179 CAPLUS  
DN 121:173179  
TI Functional separation of dipeptide transport and hydrolysis in kidney  
brush border membrane vesicles  
AU **Daniel, Hannelore**; Adibi, Siamak A.  
CS Dep. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA  
SO FASEB Journal (1994), 8(10), 753-9  
CODEN: FAJOEC; ISSN: 0892-6638  
DT Journal  
LA English

L4 ANSWER 109 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:159599 CAPLUS  
DN 120:159599  
TI Metabolic fate of dietary carbohydrates  
AU Tolle, Gerd; **Daniel, Hannelore**  
CS Inst. Ernährungswiss., Justus-Liebig-Univ., Giessen, Germany  
SO Ernährungs-Umschau (1993), 40(11), 445-8  
CODEN: ERUMAT; ISSN: 0014-021X  
DT Journal  
LA German

L4 ANSWER 110 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:153816 CAPLUS  
DN 120:153816  
TI .beta.-Casomorphins and gastrointestinal functions  
AU **Daniel, Hannelore**; Erll, Gudrun  
CS Inst. Ernährungswiss., Giessen, W-6300, Germany  
SO New Perspect. Infant Nutr., Symp. (1993), Meeting Date 1992, 146-52.  
Editor(s): Renner, B.; Sawatzki, G. Publisher: Thieme, Stuttgart,  
Germany.  
CODEN: 59RGAR  
DT Conference; General Review  
LA English

L4 ANSWER 111 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:124119 CAPLUS  
DN 120:124119  
TI Transport of .beta.-lactam antibiotics in kidney brush border membrane.  
Determinants of their affinity for the oligopeptide/hydrogen ion  
symporter  
AU **Daniel, Hannelore**; Adibi, Siamak A.  
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA

SO Journal of Clinical Investigation (1993), 92(5), 2215-23  
CODEN: JCINAO; ISSN: 0021-9738

DT Journal  
LA English

L4 ANSWER 112 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1993:121423 CAPLUS  
DN 118:121423  
TI Removal of glycylglutamine from plasma by individual tissues: mechanism  
and impact on amino acid fluxes in postabsorption and starvation  
AU Adibi, Siamak A.; Lochs, Herbert; Abumrad, Naji N.; **Daniel,**  
**Hannelore**; Vazquez, Jorge A.  
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15261, USA  
SO Journal of Nutrition (1993), 123(2, Pt. 2), 325-31  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal; General Review  
LA English

L4 ANSWER 113 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:508763 CAPLUS  
DN 117:108763  
TI Oligopeptides: mechanism of renal clearance depends on molecular  
structure  
AU Minami, Hisanori; **Daniel, Hannelore**; Morse, Emile L.; Adibi,  
Siamak A.  
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA  
SO American Journal of Physiology (1992), 263(1, Pt. 2), F109-F115  
CODEN: AJPHAP; ISSN: 0002-9513  
DT Journal  
LA English

L4 ANSWER 114 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:489297 CAPLUS  
DN 117:89297  
TI Sodium-dependent transport of riboflavin in brush border membrane  
vesicles  
of rat small intestine is an electrogenic process  
AU **Daniel, Hannelore**; Rehner, Gertrud I.  
CS Inst. Nutr., Justus-Liebig Univ., Giessen, W-6300, Germany  
SO Journal of Nutrition (1992), 122(7), 1454-61  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal  
LA English

L4 ANSWER 115 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:485364 CAPLUS  
DN 117:85364  
TI Determinants of substrate affinity for the oligopeptide/hydrogen ion  
symporter in the renal brush border membrane  
AU **Daniel, Hannelore**; Morse, Emile L.; Adibi, Siamak A.  
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA  
SO Journal of Biological Chemistry (1992), 267(14), 9565-73  
CODEN: JBCHA3; ISSN: 0021-9258  
DT Journal  
LA English

L4 ANSWER 116 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:577580 CAPLUS  
DN 115:177580  
TI The high and low affinity transport systems for dipeptides in kidney  
brush

border membrane respond differently to alterations in pH gradient and membrane potential

AU **Daniel, Hannelore**; Morse, Emile L.; Adibi, Siamak A.  
CS Clin. Nutr. Unit, Montefiore Univ., Pittsburgh, PA, 15213, USA  
SO Journal of Biological Chemistry (1991), 266(30), 19917-24  
CODEN: JBCHA3; ISSN: 0021-9258  
DT Journal  
LA English

L4 ANSWER 117 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:426856 CAPLUS  
DN 115:26856  
TI Liver diseases. Pathogenesis and nutritional therapy  
AU **Daniel, Hannelore**; Hahn, Andreas  
CS Inst. Ernaehrungswiss., Giessen, W-6300, Germany  
SO Deutsche Apotheker Zeitung (1991), 131(11), 469-78  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 118 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:162033 CAPLUS  
DN 114:162033  
TI Nutrition and the immune system. The effect of essential nutrients on the immune system  
AU **Daniel, Hannelore**; Benterbusch, Reinhild  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1991), 131(3), 61-71  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 119 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:98878 CAPLUS  
DN 114:98878  
TI In vivo kinetics of intestinal absorption of riboflavin in rats  
AU Feder, Sabine; **Daniel Hannelore**; Rehner, Gertrud  
CS Inst. Nutr., Univ. Giessen, Giessen, D-6300, Germany  
SO Journal of Nutrition (1991), 121(1), 72-9  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal  
LA English

L4 ANSWER 120 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:59696 CAPLUS  
DN 114:59696  
TI Chronic inflammatory diseases of the intestine. Pathogenesis and therapy  
AU **Daniel, Hannelore**; Metzger, Barbara  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1990), 130(45), 2461-8  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 121 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:630025 CAPLUS  
DN 113:230025  
TI .beta.-Casomorphins, opioid peptides derived from milk  
AU **Daniel, Hannelore**; Hahn, Andreas



CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, D-6300, Germany  
SO Ernaehrungs-Umschau (1990), 37(3), 95-8, 100-1  
CODEN: ERUMAT; ISSN: 0014-021X  
DT Journal; General Review  
LA German

L4 ANSWER 122 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:457835 CAPLUS  
DN 113:57835  
TI Nutrition and arteriosclerosis. Causes and treatment of hyperlipidemia  
as  
a decisive risk factor for arteriosclerosis  
AU **Daniel, Hannelore**; Hecht, Heidrun  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1990), 130(23), 1307-18  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 123 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:234262 CAPLUS  
DN 112:234262  
TI Effect of casein and .beta.-casomorphins on gastrointestinal motility in  
rats  
AU **Daniel, Hannelore**; Vohwinkel, Margret; Rehner, Gertrud  
CS Inst. Nutr., Univ. Giessen, Giessen, D-6300, Germany  
SO Journal of Nutrition (1990), 120(3), 252-7  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal  
LA English

L4 ANSWER 124 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:214508 CAPLUS  
DN 112:214508  
TI Nutritional and drug therapy of diabetes mellitus. An integrated concept  
AU **Daniel, Hannelore**; Metzger, Barbara  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1990), 130(14), 731-40  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 125 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:157065 CAPLUS  
DN 112:157065  
TI Principles of nutritional physiology. Part 2. Vitamins, nutrients, and  
trace elements  
AU **Daniel, Hannelore**; Wondrak, Lothar  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1990), 130(6), 267-77  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 126 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:157061 CAPLUS  
DN 112:157061  
TI Principles of nutritional physiology. Part 1. Major nutrients and their  
importance for human nutrition  
AU **Daniel, Hannelore**; Wondrak, Lothar

CS Inst. Ernaehrungswiss, Giessen, D-6300, Germany  
SO Deutsche Apotheker Zeitung (1990), 130(3), 121-9  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 127 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:97331 CAPLUS  
DN 112:97331  
TI Nutritional disorders - poor nutrition. Causes and consequences of the nutritional situation in Germany  
AU **Daniel, Hannelore**  
CS Inst. Ernaehrungswiss., Giessen, D-6300, Fed. Rep. Ger.  
SO Deutsche Apotheker Zeitung (1989), 129(49), 2691-6  
CODEN: DAZE2; ISSN: 0011-9857  
DT Journal; General Review  
LA German

L4 ANSWER 128 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1987:174980 CAPLUS  
DN 106:174980  
TI Effect of proteins on availability of zinc. II. Bioavailability of zinc from casein and whey protein - retention study in young rats  
AU Auge, Mechthild; Kreiling, R.; Harzer, G.; **Daniel, Hannelore**; Rehner, Gertrud  
CS Inst. Nutr., Justus Liebig Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO Zeitschrift fuer Ernaehrungswissenschaft (1986), 25(4), 233-41  
CODEN: ZERNAL; ISSN: 0044-264X  
DT Journal  
LA English

L4 ANSWER 129 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1987:99789 CAPLUS  
DN 106:99789  
TI Mechanisms of intestinal nutrient absorption  
AU **Daniel, Hannelore**  
CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, 6300, Fed. Rep. Ger.  
SO Zeitschrift fuer Ernaehrungswissenschaft (1986), 25(4), 209-19  
CODEN: ZERNAL; ISSN: 0044-264X  
DT Journal; General Review  
LA German

L4 ANSWER 130 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1986:604853 CAPLUS  
DN 105:204853  
TI Effect of pH on the transport of glucose, fructose and alanine in intestinal brush border membrane vesicles  
AU **Daniel, Hannelore**; Hartmann, Sabine; Rehner, Gertru  
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO INSERM Symposium (1986), 26(Ion Gradient-Coupled Transp.), 141-4  
CODEN: INSSDM; ISSN: 0378-0546  
DT Journal  
LA English

L4 ANSWER 131 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1986:423454 CAPLUS  
DN 105:23454  
TI Effect of metabolizable sugars on the mucosal surface pH of rat intestine  
AU **Daniel, Hannelore**; Rehner, Gertrud

CS Inst. Nutr., Justus-Liebig Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO Journal of Nutrition (1986), 116(5), 768-77  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal  
LA English

L4 ANSWER 132 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1985:146589 CAPLUS  
DN 102:146589  
TI Localization of acid microclimate along intestinal villi of rat jejunum  
AU **Daniel, Hannelore**; Neugebauer, Brigitte; Kratz, Alwin; Rehner, Gertrud  
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO American Journal of Physiology (1985), 248(3, Pt. 1), G293-G298  
CODEN: AJPHAP; ISSN: 0002-9513  
DT Journal  
LA English

L4 ANSWER 133 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1983:159456 CAPLUS  
DN 98:159456  
TI Hydrolysis of FMN and FAD by alkaline phosphatase of the intestinal brush-border membrane  
AU **Daniel, Hannelore**; Binninger, Ermeline; Rehner, Gertrud  
CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO International Journal for Vitamin and Nutrition Research (1983), 53(1), 109-14  
CODEN: IJVNAP; ISSN: 0300-9831  
DT Journal  
LA English

L4 ANSWER 134 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1983:159443 CAPLUS  
DN 98:159443  
TI In vitro kinetics of the intestinal transport of riboflavin in rats  
AU **Daniel, Hannelore**; Wille, Ursula; Rehner, Gertrud  
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO Journal of Nutrition (1983), 113(3), 636-43  
CODEN: JONUAI; ISSN: 0022-3166  
DT Journal  
LA English

L4 ANSWER 135 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1981:438610 CAPLUS  
DN 95:38610  
TI In vitro perfusion technique for investigations on the intestinal transport of water soluble substances  
AU Rehner, Gertrud; **Daniel, Hannelore**; Aeppli-Schmidt, Renate  
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.  
SO Journal of Pharmacological Methods (1981), 5(3), 193-201  
CODEN: JPMED9; ISSN: 0160-5402  
DT Journal  
LA English

L4 ANSWER 136 OF 136 CAPLUS COPYRIGHT 2003 ACS  
AN 1974:446695 CAPLUS  
DN 81:46695  
TI Electron microscopical demonstration of acetylcholinesterase in neurons and synapses of the central and peripheral nervous system

AU Ritter, Joachim; Wenzel, Juergen; **Daniel, Hannelore**  
CS Anat. Inst., Humboldt-Univ., Berlin, Ger. Dem. Rep.  
SO Acta Histochemica (1974), 49(2), 176-203  
CODEN: AHISA9; ISSN: 0065-1281  
DT Journal  
LA German

=> s genistin and cyclooxygenase?  
L5 4 GENISTIN AND CYCLOOXYGENASE?

=> d 15 abs ibib 1-4

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AB This invention relates to the use of flavone or derivs. thereof for the treatment of diseases mediated by **cyclooxygenase-2** or NF.kappa.B. The flavones can be administered in oral dosage forms or foods.

ACCESSION NUMBER: 2001:626002 CAPLUS  
DOCUMENT NUMBER: 135:185492  
TITLE: Flavones for the treatment of COX-2 and/or NF.kappa.B-mediated diseases  
INVENTOR(S): Wenzel, Uwe; Daniel, Hannelore  
PATENT ASSIGNEE(S): Basf A. -G., Germany  
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001233768	A2	20010828	JP 2001-49370	20010223
EP 1127572	A2	20010829	EP 2001-103200	20010212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001046963	A1	20011129	US 2001-782306	20010214
CN 1318371	A	20011024	CN 2001-116513	20010225
PRIORITY APPLN. INFO.:			US 2000-185179P	P 20000225
OTHER SOURCE(S):	MARPAT 135:185492			

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AB Claimed is a method for inhibiting **cyclooxygenase** or prostaglandin H synthase and for inhibiting inflammation with at least one compd. anthocyanin selected from the group consisting of cyanidin-3-glucosylrutinoside, cyanidin-3-rutinoside and cyanidin-3-glucoside isolated from the fruit of a cherry. In particular a mixt. including the anthocyanins, bioflavonoids and phenolics is described for this use.

ACCESSION NUMBER: 2001:146488 CAPLUS  
DOCUMENT NUMBER: 134:183458  
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids  
INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.  
PATENT ASSIGNEE(S): Board of Trustees Operating Michigan State University,

SOURCE: USA  
U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6194469	B1	20010227	US 1999-337313	19990621
US 6423365	B1	20020723	US 1999-317310	19990524
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531493	T2	20020924	JP 2000-586317	19991210
US 2001020009	A1	20010906	US 2000-749856	20001228
PRIORITY APPLN. INFO.:				
			US 1998-111945P	P 19981211
			US 1999-120178P	P 19990216
			US 1999-317310	A2 19990524
			US 1999-337313	A2 19990621
			WO 1999-US29261	W 19991210

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with

an

IC50 value of 80 .mu.M. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 .mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:407652 CAPLUS

DOCUMENT NUMBER: 133:261100

TITLE: **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships

AUTHOR(S): Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.

CORPORATE SOURCE: Bioactive Natural Products Laboratory, Department of

SOURCE: Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA  
Phytomedicine (2000), 7(1), 15-19  
CODEN: PYTOEY; ISSN: 0944-7113

PUBLISHER: Urban & Fischer Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB A method for inhibiting **cyclooxygenase** (COX) enzymes and inflammation in a mammal using a cherry or cherry anthocyanins, bioflavonoids, and phenolics is described. Among the flavonoids tested, kaempferol showed the highest COX-1 inhibitory activity with an IC50 value of 180.mu.M, followed by luteolin, quercetin, naringenin and quercetin 3-rhamnoside. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids tested with an IC50 value of 80.mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5, and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, hydroxyl group at C3' position decreased the COX-1/COX-2 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:401636 CAPLUS

DOCUMENT NUMBER: 133:26836

TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids

INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.

PATENT ASSIGNEE(S): Michigan State University, USA

SOURCE: PCT Int. Appl., 33 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6423365	B1	20020723	US 1999-317310	19990524
US 6194469	B1	20010227	US 1999-337313	19990621
EP 1137429	A2	20011004	EP 1999-966092	19991210
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			

JP 2002531493 T2 20020924  
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JP 2000-586317 19991210  
US 1998-111945P P 19981211  
US 1999-120178P P 19990216  
US 1999-317310 A2 19990524  
US 1999-337313 A2 19990621  
WO 1999-US29261 W 19991210

=> s bioflavonoid and cyclooxygenase?

L6 54 BIOFLAVONOID AND CYCLOOXYGENASE?

=> d l6 abs ibib 1-54

L6 ANSWER 1 OF 54 MEDLINE

AB Fom the stem wood of *Dracaena loureiri*, a new homoisoflavanone named loureiriol (1) and eight known flavonoid and stilbenoid derivatives, including 5,7-dihydroxy-3-(4-hydroxybenzyl)-4-chromanone (2), 4,4'-dihydroxy-2,6-dimethoxydihydrochalcone (3), 2,4'-dihydroxy-4,6-dimethoxydihydrochalcone (4), 4'-hydroxy-2,4,6-trimethoxydihydrochalcone (5), 4,6,4'-trihydroxy-2-methoxydihydrochalcone (6), 4,3',5'-trihydroxystilbene (7), 4,3'-dihydroxy-5'-methoxystilbene (8) and 4-hydroxy-3',5'-dimethoxystilbene (9) were isolated. These compounds were evaluated for their inhibitory activity against the enzymes **cyclooxygenase-1** and **cyclooxygenase-2**. Potent but non-selective activity was found for the stilbenoids 7-9 (IC(50) 1.29 - 4.92 microm) whereas weak or no activity was observed for the flavonoids 1-6.

ACCESSION NUMBER: 2002645407 MEDLINE  
DOCUMENT NUMBER: 22244680 PubMed ID: 12357401  
TITLE: Flavonoids and stilbenoids with COX-1 and COX-2 inhibitory activity from *Dracaena loureiri*.  
AUTHOR: Likhitwitayawuid Kittisak; Sawasdee Kanokporn; Kirtikara Kanyawim  
CORPORATE SOURCE: Department of Pharmacognosy, Faculty of Pharmaceutical Sciences Chulalongkorn University, Bangkok, Thailand.  
SOURCE: PLANTA MEDICA, (2002 Sep) 68 (9) 841-3.  
Journal code: 0066751. ISSN: 0032-0943.  
PUB. COUNTRY: Germany: Germany, Federal Republic of  
DOCUMENT TYPE: Letter  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200212  
ENTRY DATE: Entered STN: 20021031  
Last Updated on STN: 20021227  
Entered Medline: 20021226

L6 ANSWER 2 OF 54 MEDLINE

AB Ginkgetin, a biflavone from *Ginkgo biloba* leaves, was previously reported to be a phospholipase A2 inhibitor and this compound showed the potent antiarthritic activity in rat adjuvant-induced arthritis as well as analgesic activity. This investigation was carried out to find effects on **cyclooxygenase** (COX)-1 and -2 including an in vivo effect. Ginkgetin (1 - 10 microm) and the biflavonoid mixture (10 - 50 microg/ml), mainly a 1 : 1 mixture of ginkgetin and isoginkgetin, from *G. biloba* leaves, inhibited production of prostaglandin E2 from lipopolysaccharide-induced RAW 264.7 cells. This inhibition was mediated, at least in part, by down-regulation of COX-2 expression, but not by direct inhibition of COX-1 or COX-2 activity. Down-regulation of COX-2 by ginkgetin was also proved in the dorsal skin of ICR mouse treated by 12-O-

tetradecanoylphorbol 13-acetate (TPA). At total doses of 1,000 microg/site on the dorsal skin (15 mm x 15 mm), ginkgetin inhibited prostaglandin E2 production by 65.6 % along with a marked suppression of COX-2 induction. In addition, ginkgetin and the biflavonoid mixture (100 - 1,000 microg/ear) dose-dependently inhibited skin inflammation of croton oil induced ear edema in mice by topical application. The present study suggests that ginkgetin from *G. biloba* leaves down-regulates COX-2 induction in vivo and this down-regulating potential is associated with an anti-inflammatory activity against skin inflammatory responses.

ACCESSION NUMBER: 2002299751 MEDLINE  
DOCUMENT NUMBER: 21984591 PubMed ID: 11988854  
TITLE: Effects of Ginkgetin from *Ginkgo biloba* Leaves on **cyclooxygenases** and in vivo skin inflammation.  
AUTHOR: Kwak Wie-Jong; Han Chang Kyun; Son Kun Ho; Chang Hyeun Wook; Kang Sam Sik; Park Byoung Kyu; Kim Hyun Pyo  
CORPORATE SOURCE: SK Chemicals Ltd., Suwon, Korea.  
SOURCE: PLANTA MEDICA, (2002 Apr) 68 (4) 316-21.  
Journal code: 0066751. ISSN: 0032-0943.  
PUB. COUNTRY: Germany: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200207  
ENTRY DATE: Entered STN: 20020604  
Last Updated on STN: 20021219  
Entered Medline: 20020715

L6 ANSWER 3 OF 54 MEDLINE

AB Prenylated flavonoids are chemical entities having an isoprenyl, a geranyl, a 1,1-dimethylallyl, and/or a lavandulyl moiety as part of their flavonoid backbone structure. In this study, the effects of 19 naturally occurring prenylated flavonoids, isolated from medicinal plants, on **cyclooxygenase** (COX)-1 and COX-2 and on 5-lipoxygenase (5-LOX) and 12-LOX were investigated using [<sup>14</sup>C]arachidonic acid as a substrate. The homogenates of bovine platelets and polymorphonuclear leukocytes were used as COX-1, 12-LOX, and 5-LOX enzyme sources; the homogenate of aspirin-pretreated lipopolysaccharide-induced RAW 264.7 cells was used for the COX-2 enzyme source. Among the 19 prenylated flavonoids, morusin, kuwanon C, sanggenon B, sanggenon D and kazinol B inhibited COX-2 activity

(ic(50) = 73-100 microM), but the potencies were far less than that of NS-398 (ic(50) = 2.9 microM). In contrast, many prenylated flavonoids, such as kuraridin, kuwanon C and sophoraisoflavanone A, inhibited COX-1 activity. Of the COX-1 inhibiting prenylated flavonoids, kuraridin, kurarinone, and sophoraflavanone G, all having a C-8 lavandulyl moiety, showed potent activity (ic(50) = 0.1 to 1 microM) comparable to that of indomethacin (ic(50) = 0.7 microM). Most of the prenylated flavonoids tested inhibited 5-LOX activity with ic(50) values ranging from 0.09 to 100 microM. Of these, only kuwanon C, papyriflavanol A and sophoraflavanone G showed inhibitory activity against 12-LOX at low concentration ranges (ic(50) = 19-69 microM) comparable to that of NDGA (ic(50) = 2.6 microM). Our results suggest that the position and the nature of the prenyl substitution greatly influence in vitro biological activities of these molecules.

ACCESSION NUMBER: 2001654406 MEDLINE  
DOCUMENT NUMBER: 21562331 PubMed ID: 11705451



TITLE: Effects of naturally occurring prenylated flavonoids on enzymes metabolizing arachidonic acid: **cyclooxygenases** and lipooxygenases.

AUTHOR: Chi Y S; Jong H G; Son K H; Chang H W; Kang S S; Kim H P

CORPORATE SOURCE: College of Pharmacy, Kangwon National University, 200-701, Korea, Chuncheon, South Korea.

SOURCE: BIOCHEMICAL PHARMACOLOGY, (2001 Nov 1) 62 (9) 1185-91.  
Journal code: 0101032. ISSN: 0006-2952.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200112

ENTRY DATE: Entered STN: 20011115  
Last Updated on STN: 20020123  
Entered Medline: 20011204

L6 ANSWER 4 OF 54 MEDLINE

AB Several natural flavonoids have been demonstrated to perform some beneficial biological activities, however, higher-effective concentrations

and poor-absorptive efficacy in body of flavonoids blocked their practical

applications. In the present study, we provided evidences to demonstrate that flavonoids rutin, quercetin, and its acetylated product quercetin pentaacetate were able to be used with nitric oxide synthase (NOS) inhibitors (N-nitro-L-arginine (NLA) or N-nitro-L-arginine methyl ester (L-NAME)) in treatment of lipopolysaccharide (LPS) induced nitric oxide (NO) and prostaglandin E2 (PGE2) productions, inducible nitric oxide synthase (iNOS) and **cyclooxygenase-2** (COX-2) gene expressions in a mouse macrophage cell line (RAW 264.7). The results showed that rutin, quercetin, and quercetin pentaacetate-inhibited LPS-induced NO production in a concentration-dependent manner without obvious cytotoxic effect on cells by MTT assay using 3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide as an indicator. Decrease of NO production by flavonoids was consistent with the inhibition on LPS-induced iNOS gene expression by western blotting. However, these compounds were unable to block iNOS enzyme activity by direct and indirect measurement on iNOS enzyme activity. Quercetin pentaacetate showed the obvious inhibition on LPS-induced PGE2 production and COX-2 gene expression and the inhibition was not result of suppression on COX-2 enzyme activity. Previous study demonstrated that decrease of NO production by L-arginine analogs effectively stimulated LPS-induced iNOS gene expression, and proposed that

stimulatory effects on iNOS protein by NOS inhibitors might be harmful in treating sepsis. In this study, NLA or L-NAME treatment stimulated significantly on LPS-induced iNOS (but not COX-2) protein in RAW 264.7 cells which was inhibited by these three compounds. Quercetin pentaacetate, but not quercetin and rutin, showed the strong inhibitory activity on PGE2 production and COX-2 protein expression in NLA/LPS or L-NAME/LPS co-treated RAW 264.7 cells. These results indicated that combinatorial treatment of L-arginine analogs and flavonoid derivatives, such as quercetin pentaacetate, effectively inhibited LPS-induced NO and PGE2 productions, at the same time, inhibited enhanced expressions of iNOS and COX-2 genes.

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ACCESSION NUMBER: 2001455188 MEDLINE

DOCUMENT NUMBER: 21392035 PubMed ID: 11500931

TITLE: Inhibition of nitric oxide synthase inhibitors and

lipopolysaccharide induced inducible NOS and **cyclooxygenase-2** gene expressions by rutin, quercetin, and quercetin pentaacetate in RAW 264.7 macrophages.

AUTHOR: Chen Y C; Shen S C; Lee W R; Hou W C; Yang L L; Lee T J  
 CORPORATE SOURCE: Graduate Institute of Pharmacognosy Science, Taipei Medical University, Taipei, Taiwan.. yc3270@tmu.edu.tw  
 SOURCE: JOURNAL OF CELLULAR BIOCHEMISTRY, (2001) 82 (4) 537-48. Journal code: 8205768. ISSN: 0730-2312.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200110  
 ENTRY DATE: Entered STN: 20010814  
 Last Updated on STN: 20011015  
 Entered Medline: 20011011

L6 ANSWER 5 OF 54 MEDLINE

AB Diets rich in fruits and vegetables delay the onset of many age-related diseases, and contain a complex mixture of antioxidants (including ascorbate, carotenoids, vitamin E and other phenolics such as the flavonoids). However, diet also contains pro-oxidants, including iron, copper, H<sub>2</sub>O<sub>2</sub>, haem, lipid peroxides and aldehydes. Nitrite is frequently present in diet, leading to generation of reactive nitrogen species in the stomach. In considering the biological importance of dietary antioxidants, attention has usually focussed on those that are absorbed through the gastrointestinal tract into the rest of the body. In the present paper we develop the argument that the high levels of antioxidants present in certain foods (fruits, vegetables, grains) and beverages (e.g. green tea) play an important role in protecting the gastrointestinal tract itself from oxidative damage, and in delaying the development of stomach, colon and rectal cancer. Indeed, carotenoids and flavonoids do not seem to be as well absorbed as vitamins C and E. Hence their concentrations can be much higher in the lumen of the GI tract than are ever achieved in plasma or other body tissues, making an antioxidant action in the GI tract more likely. Additional protective mechanisms of these dietary constituents (e.g. effects on intercellular communication, apoptosis, **cyclooxygenases** and telomerase) may also be important.

ACCESSION NUMBER: 2001301702 MEDLINE  
 DOCUMENT NUMBER: 21131838 PubMed ID: 11237104  
 TITLE: The gastrointestinal tract: a major site of antioxidant action?  
 AUTHOR: Halliwell B; Zhao K; Whiteman M  
 CORPORATE SOURCE: Dept. of Biochemistry, National University of Singapore, Singapore.  
 SOURCE: FREE RADICAL RESEARCH, (2000 Dec) 33 (6) 819-30. Ref: 112 Journal code: 9423872. ISSN: 1071-5762.  
 PUB. COUNTRY: Switzerland  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200105  
 ENTRY DATE: Entered STN: 20010604

Last Updated on STN: 20010604  
Entered Medline: 20010531

L6 ANSWER 6 OF 54 MEDLINE

AB We previously reported that oroxylin A, a polyphenolic compound, was a potent inhibitor of lipopolysaccharide (LPS)-induced expression of inducible nitric oxide synthase (iNOS) and **cyclooxygenase-2** (COX-2). In the present study, three oroxylin A structurally related polyphenols isolated from the Chinese herb Huang Qui, namely baicalin, baicalein, and wogonin, were examined for their effects on LPS-induced nitric oxide (NO) production and iNOS and COX-2 gene expressions in RAW 264.7 macrophages. The results indicated that these three polyphenolic compounds inhibited LPS-induced NO production in a concentration-dependent manner without a notable cytotoxic effect on these cells. The decrease in NO production was in parallel with the inhibition by these polyphenolic compounds of LPS-induced iNOS gene expression. However, these three compounds did not directly affect iNOS enzyme activity. In addition, wogonin, but not baicalin or baicalein, inhibited LPS-induced prostaglandin E2 (PGE2) production and COX-2 gene expression without affecting COX-2 enzyme activity. Furthermore, N-nitro-L-arginine (NLA) and N-nitro-L-arginine methyl ester (L-NAME) pretreatment enhanced LPS-induced iNOS (but not COX-2) protein expression, which was inhibited by these three polyphenolic compounds. Wogonin, but not baicalin or baicalein, similarly inhibited PGE2 production and COX-2 protein expression in NLA/LPS or L-NAME/LPS-co-treated RAW 264.7 cells. These results indicated that co-treatment with NOS inhibitors and polyphenolic compounds such as wogonin effectively blocks acute production of NO and, at the same time, inhibits expression of iNOS and COX-2 genes.

ACCESSION NUMBER: 2001249620 MEDLINE  
DOCUMENT NUMBER: 21229513 PubMed ID: 11331078  
TITLE: Wogonin, baicalin, and baicalein inhibition of inducible nitric oxide synthase and **cyclooxygenase-2** gene expressions induced by nitric oxide synthase inhibitors and lipopolysaccharide.  
AUTHOR: Chen Y C; Shen S C; Chen L G; Lee T J; Yang L L  
CORPORATE SOURCE: Graduate Institute of Pharmacognosy Science, Taipei Medical University, 250 Wu-Hsing Street, Taipei, Taiwan.  
CONTRACT NUMBER: HL 27763 (NHLBI)  
SOURCE: BIOCHEMICAL PHARMACOLOGY, (2001 Jun 1) 61 (11) 1417-27. Journal code: 0101032. ISSN: 0006-2952.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200105  
ENTRY DATE: Entered STN: 20010517  
Last Updated on STN: 20010517  
Entered Medline: 20010510

L6 ANSWER 7 OF 54 MEDLINE

AB Chronic venous insufficiency (CVI) is accompanied by a marked inflammatory response that is thought to contribute to the development and progression of the disorder. While compression therapy has long been considered the standard treatment for CVI, recent studies suggest that treatment with

flavonoids may also be beneficial. The purpose of this review is to summarize how plant flavonoids attenuate inflammation and the immune response through their inhibition of important regulatory enzymes.

Certain

flavonoids are potent inhibitors of the production of prostaglandins, a group of powerful proinflammatory signaling molecules. Studies have shown that this effect is due to flavonoid inhibition of key enzymes involved

in

prostaglandin biosynthesis (i.e., lipoxygenase, phospholipase, and **cyclooxygenase**). Flavonoids also inhibit phosphodiesterases involved in cell activation. Much of this effect is upon the biosynthesis of protein cytokines that mediate adhesion of circulating leukocytes to sites of injury. The protein kinases are another class of regulatory enzymes affected by flavonoids. The inhibition of kinases is due to the competitive binding of flavonoids with ATP at catalytic sites on the enzymes. These modes of inhibition provide the mechanisms by which flavonoids inhibit the inflammation response and suggest that this class of molecules may be effective in the treatment of CVI.

ACCESSION NUMBER: 2001153004 MEDLINE  
DOCUMENT NUMBER: 21025288 PubMed ID: 11151968  
TITLE: Biological properties of flavonoids pertaining to inflammation.  
AUTHOR: Manthey J A  
CORPORATE SOURCE: 33881.. jmanthey@citrus.usda.gov  
SOURCE: MICROCIRCULATION, (2000) 7 (6 Pt 2) S29-34. Ref: 52  
Journal code: 9434935. ISSN: 1073-9688.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200103  
ENTRY DATE: Entered STN: 20010404  
Last Updated on STN: 20010404  
Entered Medline: 20010322

L6 ANSWER 8 OF 54 MEDLINE

AB Certain flavonoid derivatives possess anti-inflammatory activity in vitro and in vivo. Besides their antioxidative properties and effects on the arachidonic acid metabolism including **cyclooxygenase** /lipoxygenase inhibition, some flavones and flavonols were previously found to show inhibitory activity on nitric oxide production by inducible nitric oxide synthase (iNOS; NOS type 2) through suppression of iNOS induction. As part of our continuing investigations, the effects of

unique

and minor flavonoids (prenylated flavonoids and biflavonoids) on nitric oxide production from lipopolysaccharide-induced macrophage cell line

(RAW

264.7) were evaluated in order to establish their inhibitory activity on NO production and correlate this action with their in vivo anti-inflammatory potential. Among the derivatives tested, prenylated compounds including morusin, kuwanon C, and sanggenon D and biflavonoids such as bilobetin and ginkgetin were found to inhibit NO production from lipopolysaccharide (LPS)-induced RAW 264.7 cells at > 10 microM. Inhibition of nitric oxide production was mediated by suppression of iNOS enzyme induction but not by direct inhibition of iNOS enzyme activity. An exception was echinoisoflavanone that inhibited iNOS enzyme activity

(IC50

= 83 microM) and suppressed iNOS enzyme induction as well. While most

prenylated derivatives showed cytotoxicity to RAW cells at 10-100 microM, all biflavonoids tested were not cytotoxic. Since nitric oxide (NO) produced by inducible NO synthase (iNOS) plays an important role in inflammatory disorders, inhibition of NO production by these flavonoids may contribute, at least in part, to their anti-inflammatory and immunoregulating potential in vivo.

ACCESSION NUMBER: 2001090884 MEDLINE  
DOCUMENT NUMBER: 20557189 PubMed ID: 11105561  
TITLE: Effects of prenylated flavonoids and biflavonoids on lipopolysaccharide-induced nitric oxide production from the mouse macrophage cell line RAW 264.7.  
AUTHOR: Cheon B S; Kim Y H; Son K S; Chang H W; Kang S S; Kim H P  
CORPORATE SOURCE: College of Pharmacy, Kangwon National University, Chuncheon, Korea.  
SOURCE: PLANTA MEDICA, (2000 Oct) 66 (7) 596-600.  
Journal code: 0066751. ISSN: 0032-0943.  
PUB. COUNTRY: GERMANY: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200101  
ENTRY DATE: Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20010125

L6 ANSWER 9 OF 54 MEDLINE

AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an IC50 value of 80 microM. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 microM. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000244342 MEDLINE  
DOCUMENT NUMBER: 20244342 PubMed ID: 10782485  
TITLE: **Cyclooxygenase** active **bioflavonoids** from Balaton tart cherry and their structure activity relationships.  
AUTHOR: Wang H; Nair M G; Strasburg G M; Booren A M; Gray I; Dewitt  
CORPORATE SOURCE: D L Department of Horticulture, Michigan State University, USA.  
CONTRACT NUMBER: 1-S10-RR04750 (NCRR)  
SOURCE: PHYTOMEDICINE, (2000 Mar) 7 (1) 15-9.  
Journal code: 9438794. ISSN: 0944-7113.  
PUB. COUNTRY: GERMANY: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200007  
ENTRY DATE: Entered STN: 20000810

Last Updated on STN: 20000810  
Entered Medline: 20000727

L6 ANSWER 10 OF 54 MEDLINE

AB Polyphenols are major components of many traditional herbal remedies, which exhibit several beneficial effects including anti-inflammation. The exact mechanism of the anti-inflammatory action of polyphenols, however, has not been determined. In the present study, we examined the effects of eight different polyphenols isolated from Chinese herbs, including two flavonoids (myricitrin and oroxylin A), four ellagitannins (penta-O-galloyl-beta-glucopyranose, woodfordin C, oenothien B, and cuphiin D1), and two anthraquinones (emodin and physcion), on lipopolysaccharide (LPS)-induced nitric oxide (NO) production, and inducible nitric oxide synthase (iNOS) and **cyclooxygenase-2** (COX-2) gene expression in RAW264.7 macrophages. The results indicated that only oroxylin A and emodin concentration-dependently inhibited LPS-induced NO production. The remaining compounds slightly inhibited LPS-induced NO production only at the highest concentration examined. Furthermore, oroxylin A inhibited the expression of LPS-induced iNOS and COX-2 proteins and mRNAs without an appreciable cytotoxic effect on RAW264.7 cells. Emodin also inhibited LPS-induced iNOS protein as

potently

as oroxylin A, but it inhibited LPS-induced iNOS mRNA expression only slightly and did not affect COX-2 mRNA and proteins. This was consistent with the findings that oroxylin A but not emodin or physcion inhibited prostaglandin E(2) synthesis induced by LPS. The inhibitory effects of oroxylin A on LPS-induced iNOS and COX-2 gene expression were also demonstrated in Bcl-2-overexpressing RAW264.7 macrophages, suggesting

that

oroxylin A inhibition of iNOS and COX-2 expression was not due to its antioxidant effect. Furthermore, oroxylin A but not emodin blocked

nuclear

factor-kappaB (NF-kappaB) binding and transcriptional activation associated with decreased p65 proteins in the nucleus induced by LPS. These results indicated that oroxylin A, an active component in Huang

Qin,

inhibited LPS-induced iNOS and COX-2 gene expression by blocking

NF-kappaB

activation, whereas emodin inhibition of LPS-induced iNOS expression may be mediated by a different transcription factor.

ACCESSION NUMBER: 2000216670 MEDLINE

DOCUMENT NUMBER: 20216670 PubMed ID: 10751555

TITLE: Oroxylin A inhibition of lipopolysaccharide-induced iNOS and COX-2 gene expression via suppression of nuclear factor-kappaB activation.

AUTHOR: Chen Y; Yang L; Lee T J

CORPORATE SOURCE: Department of Pharmacology, Southern Illinois University, School of Medicine, Springfield, IL 62704-9629, USA.

CONTRACT NUMBER: HL 27763 (NHLBI)

HL47574 (NHLBI)

SOURCE: BIOCHEMICAL PHARMACOLOGY, (2000 Jun 1) 59 (11) 1445-57. Journal code: 0101032. ISSN: 0006-2952.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200005

ENTRY DATE: Entered STN: 20000512

Last Updated on STN: 20000512

Entered Medline: 20000504

L6 ANSWER 11 OF 54 MEDLINE

AB Prostaglandins biosynthesis and nitric oxide production have been implicated in the process of carcinogenesis and inflammation. In this study, we investigated the effect of various flavonoids and (-)-epigallocatechin-3-gallate on the activities of inducible **cyclooxygenase** (COX-2) and inducible nitric oxide synthase (iNOS) in lipopolysaccharide (LPS)-activated RAW 264.7 macrophages. Apigenin, genistein and kaempferol were markedly active inhibitors of transcriptional activation of COX-2, with IC(50) < 15 microM. In addition, apigenin and kaempferol were also markedly active inhibitors of transcriptional activation of iNOS, with IC(50) < 15 microM. Of those compounds tested, apigenin was the most potent inhibitor of transcriptional activation of both COX-2 and iNOS. Western and northern blot analyses demonstrated that apigenin significantly blocked protein and mRNA expression of COX-2 and iNOS in LPS-activated macrophages. Transient transfection experiments showed that LPS caused an approximately 4-fold increase in both COX-2 and iNOS promoter activities, these increments were suppressed by apigenin. Moreover, electrophoretic mobility shift assay (EMSA) experiments indicated that apigenin blocked the LPS-induced activation of nuclear factor-kB (NF-kB). The inhibition of NF-kB activation occurs through the prevention of inhibitor kB (IkB) degradation. Transient transfection experiments also showed that apigenin inhibited NF-kB-dependent transcriptional activity. Finally, we showed that apigenin could inhibit the IkB kinase activity induced by LPS or interferon-gamma. The results of further studies suggest that suppression of transcriptional activation of COX-2 and iNOS by apigenin might mainly be mediated through inhibition of IkB kinase activity. This study suggests that modulation of COX-2 and iNOS by apigenin and related flavonoids may be important in the prevention of carcinogenesis and inflammation.

ACCESSION NUMBER: 1999435951 MEDLINE  
DOCUMENT NUMBER: 99435951 PubMed ID: 10506109  
TITLE: Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages.  
AUTHOR: Liang Y C; Huang Y T; Tsai S H; Lin-Shiau S Y; Chen C F; Lin J K  
CORPORATE SOURCE: Institute of Biochemistry, College of Medicine, National Taiwan University, No. 1, Section 1, Taipei, Taiwan.  
SOURCE: CARCINOGENESIS, (1999 Oct) 20 (10) 1945-52.  
Journal code: 8008055. ISSN: 0143-3334.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199911  
ENTRY DATE: Entered STN: 20000111  
Last Updated on STN: 20000111  
Entered Medline: 19991104

L6 ANSWER 12 OF 54 MEDLINE

AB The antioxidant and eicosanoid enzyme inhibition properties of pomegranate (Punica granatum) fermented juice and seed oil flavonoids were studied. The pomegranate fermented juice (pfj) and cold pressed seed oil (pcpsso) showed strong antioxidant activity close to that of butylated

hydroxyanisole (BHA) and green tea (*Thea sinensis*), and significantly greater than that of red wine (*Vitis vitifera*). Flavonoids extracted from pcpsso showed 31-44% inhibition of sheep **cyclooxygenase** and 69-81% inhibition of soybean lipoxygenase. Flavonoids extracted from pfj showed 21-30% inhibition of soybean lipoxygenase though no significant inhibition of sheep **cyclooxygenase**. The pcpsso was analyzed for its polyphenol content and fatty acid composition. Total polyphenols in pcpsso showed a concentration by weight of approximately 0.015%. Pcpsso fatty acid composition showed punicic acid (65.3%) along with palmitic acid (4.8%), stearic acid (2.3%), oleic acid (6.3%), linoleic acid (6.6%) and three unidentified peaks from which two (14.2%) are probably isomers of punicic acid (El-Shaarawy, M.I., Nahpetian, A., 1983). Studies on pomegranate seed oil. *Fette Seifen Anstrichmittel* 83(3), 123-126).

ACCESSION NUMBER: 1999359160 MEDLINE  
DOCUMENT NUMBER: 99359160 PubMed ID: 10432202  
TITLE: Antioxidant and eicosanoid enzyme inhibition properties of pomegranate seed oil and fermented juice flavonoids.  
AUTHOR: Schubert S Y; Lansky E P; Neeman I  
CORPORATE SOURCE: Laboratories of Food Engineering and Biotechnology, Technion-Israel Institute of Technology, Haifa.  
SOURCE: JOURNAL OF ETHNOPHARMACOLOGY, (1999 Jul) 66 (1) 11-7.  
Journal code: 7903310. ISSN: 0378-8741.  
PUB. COUNTRY: Ireland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199910  
ENTRY DATE: Entered STN: 19991101  
Last Updated on STN: 19991101  
Entered Medline: 19991020

L6 ANSWER 13 OF 54 MEDLINE

AB Biflavonoid is one of unique classes of naturally-occurring **bioflavonoids**. Certain biflavonoids including amentoflavone were previously reported to have inhibitory effect on the group II phospholipase A2 activity. Amentoflavone was also found to inhibit **cyclooxygenase** from guinea-pig epidermis without affecting lipoxygenase. In this study, anti-inflammatory and analgesic activities

of

amentoflavone were evaluated. When amentoflavone was administered intraperitoneally, it showed a potent anti-inflammatory activity as determined by amelioration of croton-oil induced mouse ear edema. It also showed a potent anti-inflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone

(35

mg/kg) and indomethacin (10 mg/kg). However, amentoflavone did not show a significant inhibitory activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addition, amentoflavone was found to possess a potent analgesic activity in the acetic acid writhing test

(ED50

= 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that amentoflavone may be a potential lead for a new type of anti-inflammatory agents having dual inhibitory activity of group II phospholipase A2 and **cyclooxygenase**.

ACCESSION NUMBER: 1999092626 MEDLINE  
DOCUMENT NUMBER: 99092626 PubMed ID: 9875467  
TITLE: Amentoflavone, a plant biflavone: a new potential anti-inflammatory agent.  
AUTHOR: Kim H K; Son K H; Chang H W; Kang S S; Kim H P  
CORPORATE SOURCE: College of Pharmacy, Kangwon National Univ., Chunchon,



SOURCE: Korea.  
ARCHIVES OF PHARMACAL RESEARCH, (1998 Aug) 21 (4) 406-10.  
Journal code: 8000036. ISSN: 0253-6269.  
PUB. COUNTRY: KOREA  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199902  
ENTRY DATE: Entered STN: 19990311  
Last Updated on STN: 19990311  
Entered Medline: 19990225

L6 ANSWER 14 OF 54 MEDLINE

AB OBJECTIVE AND DESIGN: The anti-inflammatory effect of myricetinglucuronide

(MGL) was investigated and structurally-related compounds were compared to

examine the structure/activity-relationship in carrageenan-induced rat paw

edema. MATERIALS AND SUBJECTS: In vitro studies were performed using rat basophilic leukemia (RBL-1) cells, human polymorphonuclear leukocytes (PMNL), COX-1 from ram seminal vesicle, COX-2 from sheep placenta and human venous blood. For the in vivo tests male Wistar rats were used, for the ex vivo test perfused rabbit ears. TREATMENT: 1-300 microg/kg MGL or myricetinmethylglucuronate and 0.1-5 mg/kg other related compounds administered p.o. (carrageenan edema). 5, 50 and 150 microg/kg MGL p.o. for 14 days (Freund's adjuvant arthritis), 5 and 50 microg/kg p.o. for 6 days (ulceration). METHODS: Anti-inflammatory effects were measured in carrageenan edema and in adjuvant arthritis. Incidence of gastric lesions was tested in an ulcerogenicity model in vivo. Influence on COX was determined in the perfused rabbit ear, in PMNL and in a test assay using COX-1 and COX-2. 5-LOX activity was studied using PMNL and RBL-1. The influence on platelet aggregation was evaluated measuring light transmission. RESULTS: MGL exerted a marked and dose-dependent anti-inflammatory effect in acute (carrageenan edema, ED50 15 microg/kg, indomethacin ED50 10 mg/kg) and chronic (adjuvant arthritis, inhibition

at 150 microg/kg 18.1 % left paw, 20.6% right paw, indomethacin 3 mg/kg 18.0%

and 19.4%)) models of inflammation. In the perfused rabbit ear 1 microg MGL inhibited the release of PGI2, PGD2 and PGE2 to the same extent as 1 microg indomethacin. The inhibition of COX-1 in the intact cell system was

IC50 = 0.5 microM, that of indomethacin 0.0038 microM. In the isolated enzyme preparations of COX-1 and COX-2 the IC50 was 10 microM and 8 microM, that of indomethacin 9.2 mM and 2.4 microM. In the RBL-1 and PMNL test assay the inhibition of 5-LOX was 0.1 microM and 2.2 microM. An orally administered dose of 50 microg/kg/day induced no gastric ulcers in rats treated for 6 days. The investigations on carrageenan edema showed a close relationship between the structure of MGL and the anti-inflammatory effect. CONCLUSIONS: MGL is a COX-1, COX-2 and 5-LOX inhibitor. In view

of the moderate in vitro activity and the very potent in vivo activity an additive mechanism must be involved. Small changes in the molecular structure lead to the loss or reduction of the anti-inflammatory activity.

ACCESSION NUMBER: 1999081098 MEDLINE

DOCUMENT NUMBER: 99081098 PubMed ID: 9865500

TITLE: Anti-inflammatory activity of myricetin-3-O-beta-D-

glucuronide and related compounds.  
AUTHOR: Hiermann A; Schramm H W; Laufer S  
CORPORATE SOURCE: Institute of Pharmacognosy, University of Graz, Austria..  
                  alois.hiermann@kfunigraz.ac.at  
SOURCE: INFLAMMATION RESEARCH, (1998 Nov) 47 (11) 421-7.  
          Journal code: 9508160. ISSN: 1023-3830.  
PUB. COUNTRY: Switzerland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199903  
ENTRY DATE: Entered STN: 19990316  
              Last Updated on STN: 19990316  
              Entered Medline: 19990301

L6 ANSWER 15 OF 54 MEDLINE

AB This study was conducted to obtain effective cancer chemopreventive agents

with low toxicity from medicinal herbs. The effect of aqueous extracts from 9 medicinal herbs with antiinflammatory effect were examined on the formation of azoxymethane (AOM)-induced aberrant crypt foci (ACF), putative preneoplastic lesions of the colon. Male F344 rats were treated with 15 mg/kg body weight of AOM once a week for two weeks. Herbal extract

consisting of 2% of the diet was administered from 1 d prior to the first carcinogen treatment. The number of AOM-induced ACF per colon was counted at 4 week. Extracts of Coptidis Rhizoma and Scutellariae Radix significantly inhibited AOM-induced ACF formation. The number of ACF was decreased to 54% and 78% of that of the control by 2% Coptidis Rhizoma and

and Scutellariae Radix extract in the diet, respectively. Berberine and Baicalin, major ingredients of Coptidis Rhizoma and Scutellariae Radix, inhibited ACF formation at a dose equivalent to the amount in each herbal extract. Therefore, to investigate the mechanisms of action of berberine and baicalein which is the active substances of orally administered baicalin, their effects on **cyclooxygenase 1** and 2 activities were studied. Berberine was found to inhibit **cyclooxygenase 2** activity without inhibition of **cyclooxygenase 1** activity, and baicalein inhibited **cyclooxygenase 1** activity. Thus, Coptidis Rhizoma and Scutellariae Radix suppressed experimental colon carcinogenesis, and their chemopreventive effects were explained from the inhibition of berberine on **cyclooxygenase 2** activity and baicalein on **cyclooxygenase 1** activity.

ACCESSION NUMBER: 1998414180 MEDLINE  
DOCUMENT NUMBER: 98414180 PubMed ID: 9743248  
TITLE: Inhibitory effect of Coptidis Rhizoma and Scutellariae Radix on azoxymethane-induced aberrant crypt foci formation

in rat colon.  
AUTHOR: Fukutake M; Yokota S; Kawamura H; Iizuka A; Amagaya S; Fukuda K; Komatsu Y  
CORPORATE SOURCE: Central Research Laboratories, Tsumura & Co., Ibaraki, Japan.  
SOURCE: BIOLOGICAL AND PHARMACEUTICAL BULLETIN, (1998 Aug) 21 (8) 814-7.  
          Journal code: 9311984. ISSN: 0918-6158.  
PUB. COUNTRY: Japan  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199811  
ENTRY DATE: Entered STN: 19990106  
Last Updated on STN: 19990106  
Entered Medline: 19981117

L6 ANSWER 16 OF 54 MEDLINE

AB Extracts from the four plant species *Atuna racemosa* Raf. ssp. *racemosa*, *Syzygium corynocarpum* (A. Gray) C. Muell., *Syzygium malaccense* (L.) Merr. & Perry and *Vantanea peruviana* Macbr., traditionally used for inflammatory

conditions, were fractionated using a **cyclooxygenase-1** catalysed prostaglandin biosynthesis in vitro assay. The flavan-3-ol derivatives (+)-catechin, (+)-gallocatechin, 4'-O-Me-ent-gallocatechin, ouratea-catechin and ouratea-proanthocynidin A were isolated as active principles. The IC50 values ranged from 3.3 microM to 138 microM whilst indomethacin under the same test conditions had an IC50 value of 1.1 microM. The flavonol rhamnosides mearnsitrin, myricitrin and quercitrin were also isolated. When further tested for inhibitory effect on **cyclooxygenase-2** catalysed prostaglandin biosynthesis, the five flavan-3-ol derivatives exhibited from equal to weaker inhibitory potencies, as compared to their **cyclooxygenase-1** inhibitory effects. The flavonol rhamnosides were inactive towards both enzymes.

ACCESSION NUMBER: 1998413732 MEDLINE  
DOCUMENT NUMBER: 98413732 PubMed ID: 9741297  
TITLE: Flavan-3-ols isolated from some medicinal plants inhibiting

COX-1 and COX-2 catalysed prostaglandin biosynthesis.  
AUTHOR: Noreen Y; Serrano G; Perera P; Bohlin L  
CORPORATE SOURCE: Department of Pharmacy, Uppsala University, Sweden.  
SOURCE: PLANTA MEDICA, (1998 Aug) 64 (6) 520-4.  
Journal code: 0066751. ISSN: 0032-0943.  
PUB. COUNTRY: GERMANY: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199810  
ENTRY DATE: Entered STN: 19981021  
Last Updated on STN: 19990129  
Entered Medline: 19981015

L6 ANSWER 17 OF 54 MEDLINE

AB The effect of adenosine on pulmonary vessels was studied in isolated perfused rat lungs. Drugs were administered intra-arterially in a fixed volume of 0.1 ml Krebs solution as bolus injections. Adenosine responses were obtained before and 10 min after drug injections. When applied in logarithmically increasing doses (1-100 micrograms/ml), adenosine caused dose-dependent increases in pulmonary perfusion pressure (e.g. pulmonary vasoconstriction) which were readily reversible. Challenging adenosine with quinidine, dihydroergocristine and cyproheptadine (2 micrograms/ml each) did not significantly alter adenosine responses. Pretreatment of lungs with 0.5 mM theophylline, 10 micrograms/ml indomethacin, 30 micrograms/ml tebokan (a PAF antagonist) or 1 microgram/ml methylene blue for 10 min, however, antagonized the vasoconstrictor effect of the drug significantly. From these experiments, it was concluded that the mechanisms underlying the pulmonary vasoconstrictor action of adenosine are complex, and that both types of purinoceptors, prostaglandins, PAF and

other vascular endothelial hormones might be involved.

ACCESSION NUMBER: 1998315601 MEDLINE  
DOCUMENT NUMBER: 98315601 PubMed ID: 9651801

TITLE: On the mechanisms of adenosine induced pulmonary vasoconstriction in rats.  
 AUTHOR: Kucukhuseyin C; Silan C; Akbas N; Payat M; Oncel H; Barlas A  
 CORPORATE SOURCE: Department of Pharmacology, Istanbul University, Cerrahpasa Medical Faculty, Istanbul, Turkey.  
 SOURCE: JOURNAL OF BASIC AND CLINICAL PHYSIOLOGY AND PHARMACOLOGY, (1997) 8 (4) 287-99.  
 Journal code: 9101750. ISSN: 0792-6855.  
 PUB. COUNTRY: ENGLAND: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199809  
 ENTRY DATE: Entered STN: 19980925  
 Last Updated on STN: 19980925  
 Entered Medline: 19980916

L6 ANSWER 18 OF 54 MEDLINE

AB Although there have been numerous topical applications of plant extracts having flavonoids known as anti-inflammatory compounds, only a few studies

were reported concerning effects of flavonoids on epidermal **cyclooxygenase**/lipoyxygenase. In this investigation, effects of naturally occurring flavonoids on epidermal **cyclooxygenase** /lipoyxygenase were studied using five selected derivatives: flavanone, apigenin (flavone), quercetin (flavonol), amentoflavone and ginkgetin (biflavone) because eicosanoids generated in the epidermis are believed

to

be involved in various biological activities of the skin. Microsomal and cytosolic fractions were obtained from guinea-pig epidermal homogenate by centrifugation and used as a source for **cyclooxygenase** and lipoyxygenase. It was found that quercetin inhibited both **cyclooxygenase** and lipoyxygenase, being more potent against lipoyxygenase, while flavanone and apigenin did not show any inhibition. Amentoflavone, one of the biflavones tested, showed potent and selective inhibitory activity on **cyclooxygenase** (IC<sub>50</sub> = 3 microM) which was comparable to indomethacin (IC<sub>50</sub> = 1 microM). In contrast, structurally similar ginkgetin possessed weak inhibitory activity on **cyclooxygenase**. The in vivo effects of these flavonoids on the normal and diseased skin remain to be studied.

ACCESSION NUMBER: 1998141266 MEDLINE  
 DOCUMENT NUMBER: 98141266 PubMed ID: 9482162  
 TITLE: Effects of naturally-occurring flavonoids and biflavonoids on epidermal **cyclooxygenase** and lipoyxygenase from guinea-pigs.  
 AUTHOR: Kim H P; Mani I; Iversen L; Ziboh V A  
 CORPORATE SOURCE: College of Pharmacy, Kangweon Nat'l. Univ., Chuncheon, Korea.  
 CONTRACT NUMBER: R01-30679  
 SOURCE: PROSTAGLANDINS LEUKOTRIENES AND ESSENTIAL FATTY ACIDS, (1998 Jan) 58 (1) 17-24.  
 Journal code: 8802730. ISSN: 0952-3278.  
 PUB. COUNTRY: SCOTLAND: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199803  
 ENTRY DATE: Entered STN: 19980410

Last Updated on STN: 19980410  
Entered Medline: 19980327

L6 ANSWER 19 OF 54 MEDLINE

AB Flavonoids are benzo-gamma-pyrone derivatives of plant origin. They possess wide spectrum of biological activity. From the therapeutical point of view the most important are their antioxidant properties. These are the result of high propensity to electron transfer, ferrous ions chelating activity and direct scavenging of reactive oxygen species. Flavonoids inhibit enormous number of enzymes. From the pharmacological point of view inhibition of **cyclooxygenase** and lipoxxygenases as well as scavenging of superoxide anions seem to be essential. Flavonoids are antiinflammatory agents as the result of diminished formation of proinflammatory mediators (prostaglandins, leukotrienes, reactive oxygen species, nitric oxide). They are also antithrombotic owing to their ability to scavenge superoxide anions. These anions are strong inhibitors of prostacyclin production. Removal of superoxide anions by flavonoids facilitates antiaggregatory PGI<sub>2</sub> formation. Superoxide anions generate proaggregatory isoprostanes. The antiaggregatory effect of flavonoids may be due to the limitation of formation of isoprostanes. Empirical use of flavonoids as drugs acquired recently scientific confirmation.

ACCESSION NUMBER: 97267017 MEDLINE  
DOCUMENT NUMBER: 97267017 PubMed ID: 9112694  
TITLE: Bioactivity of flavonoids.  
AUTHOR: Robak J; Gryglewski R J  
CORPORATE SOURCE: Department of Pharmacology, Medical College of Jagiellonian University, Krakow, Poland.  
SOURCE: POLISH JOURNAL OF PHARMACOLOGY, (1996 Nov-Dec) 48 (6) 555-64. Ref: 65  
Journal code: 9313882. ISSN: 1230-6002.  
PUB. COUNTRY: Poland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199706  
ENTRY DATE: Entered STN: 19970709  
Last Updated on STN: 19970709  
Entered Medline: 19970626

L6 ANSWER 20 OF 54 MEDLINE

AB Sixteen constituents from Formosan Moraceous plants were tested for their antiplatelet activities in rabbit platelet suspension and human platelet-rich plasma. Cycloartocarpin A, cycloheterophyllin, broussochalcone A, kazinol A, broussoaurone A, and broussoflavonol F showed strong inhibition of arachidonic acid (AA)-induced platelet aggregation. Of the compounds tested, broussochalcone A exhibited the most potent inhibition of platelet aggregation induced by AA (IC<sub>50</sub> = 6.8 microM). The antiplatelet effects of cycloheterophyllin, broussochalcone A, kazinol B, broussoaurone A, and broussoflavonol F are partially due to an inhibitory effect on **cyclooxygenase**.

ACCESSION NUMBER: 97017619 MEDLINE  
DOCUMENT NUMBER: 97017619 PubMed ID: 8864236  
TITLE: Novel antiplatelet constituents from formosan moraceous

plants.  
 AUTHOR: Lin C N; Lu C M; Lin H C; Fang S C; Shieh B J; Hsu M F;  
 Wang J P; Ko F N; Teng C M  
 CORPORATE SOURCE: School of Pharmacy, Kaohsiung Medical College, Taiwan,  
 Republic of China.  
 SOURCE: JOURNAL OF NATURAL PRODUCTS, (1996 Sep) 59 (9) 834-8.  
 Journal code: 7906882. ISSN: 0163-3864.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199701  
 ENTRY DATE: Entered STN: 19970128  
 Last Updated on STN: 19970128  
 Entered Medline: 19970113

L6 ANSWER 21 OF 54 MEDLINE

AB Two new flavone glucosides, nevadensin 5-O-beta-D-glucoside and  
 nevadensin  
 5-O-beta-D-glucosyl(1-->6)beta-D-glucoside, have been isolated from the  
 aerial parts of *Lysionotus pauciflorus*. The structures have been  
 determined by means of UV, mass spectral and one- and two-dimensional 1H  
 and 13C NMR techniques.

ACCESSION NUMBER: 96273239 MEDLINE  
 DOCUMENT NUMBER: 96273239 PubMed ID: 8688190  
 TITLE: Nevadensin glycosides from *Lysionotus pauciflorus*.  
 AUTHOR: Liu Y; Wagner H; Bauer R  
 CORPORATE SOURCE: Institut fur Pharmazeutische Biologie, Universitat  
 Munchen,  
 Germany.  
 SOURCE: PHYTOCHEMISTRY, (1996 Jul) 42 (4) 1203-5.  
 Journal code: 0151434. ISSN: 0031-9422.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Biotechnology  
 ENTRY MONTH: 199608  
 ENTRY DATE: Entered STN: 19960911  
 Last Updated on STN: 19960911  
 Entered Medline: 19960826

L6 ANSWER 22 OF 54 MEDLINE

AB 1. The in vitro effects of centaureidin and 5,3'-dihydroxy-4'-methoxy-7-  
 carbomethoxyflavonol (Fig. 1), two anti-inflammatory flavonoids extracted  
 from *Tanacetum microphyllum* DC., have been examined on both  
**cyclooxygenase** and lipoxxygenase activity. 2. These flavonoids  
 produced an inhibition of soybean lipoxxygenase activity in a  
 dose-dependent manner, with IC50 values (20 and 29 microM respectively)  
 similar to the reference drug. 3. The IC50 values for the in vitro  
 inhibition of **cyclooxygenase** activity by these flavonoids, were  
 higher than those that produced lipoxxygenase activity (318 and 60 microM  
 respectively). 4. These results suggest that the anti-inflammatory  
 activity of our flavonoids may, at least in part, be due to the  
 inhibition  
 of leukotriene synthesis. 5. This is the first report of the biological  
 activity in vitro of these compounds.

ACCESSION NUMBER: 95361988 MEDLINE  
 DOCUMENT NUMBER: 95361988 PubMed ID: 7635257  
 TITLE: The activity of flavonoids extracted from *Tanacetum*  
*microphyllum* DC. (Compositae) on soybean lipoxxygenase and

prostaglandin synthetase.  
 AUTHOR: Abad M J; Bermejo P; Villar A  
 CORPORATE SOURCE: Department of Pharmacology, Faculty of Pharmacy,  
 University Complutense, Madrid, Spain.  
 SOURCE: GENERAL PHARMACOLOGY, (1995 Jul) 26 (4) 815-9.  
 Journal code: 7602417. ISSN: 0306-3623.  
 PUB. COUNTRY: ENGLAND: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199509  
 ENTRY DATE: Entered STN: 19950921  
 Last Updated on STN: 19950921  
 Entered Medline: 19950913

L6 ANSWER 23 OF 54 MEDLINE

AB Certain **bioflavonoids** and phenolic compounds have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring preparations. Inhibition of catecholamine reuptake with cocaine or catecholamine metabolism with tropolone and parglyine (monoamine oxidase and catecholamine-O-methyl transferase inhibitors, respectively) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein ( $10^{-5}$  M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine  $\alpha$ -1 and  $\alpha$ -2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated that flavone potentiation required three contiguous A or B ring hydroxylations. Several nonflavone phenol derivatives with three contiguous hydroxyls also potentiated nerve stimulation responses. As baicalein is a potent lipoxxygenase inhibitor, comparisons were made between potentiating ability and lipoxxygenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and potentiation of contractile responses in the femoral artery. Additionally, the specific substrate analog lipoxxygenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the A or B ring increase in vitro vascular responsiveness via a post-synaptic process, independent of **cyclooxygenase**, lipoxxygenase, monoamine oxidase or catecholamine-O-methyl transferase activity.

ACCESSION NUMBER: 93020379 MEDLINE  
 DOCUMENT NUMBER: 93020379 PubMed ID: 1403805  
 TITLE: Flavonoid potentiation of contractile responses in rat blood vessels.  
 AUTHOR: Berger M E; Golub M S; Chang C T; al-Kharouf J A; Nyby M D;  
 Hori M; Brickman A S; Tuck M L  
 CORPORATE SOURCE: Sepulveda VA Medical Center, California.  
 CONTRACT NUMBER: RO1 HL41295 (NHLBI)  
 SOURCE: JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1992 Oct) 263 (1) 78-83.

PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199211  
ENTRY DATE: Entered STN: 19930122  
Last Updated on STN: 19970203  
Entered Medline: 19921120

L6 ANSWER 24 OF 54 MEDLINE

AB Carrageenin paw oedema and croton oil ear oedema induced simultaneously  
in

rats are inhibited in a dose-dependent manner and to statistically significant degrees by lipxygenase- and **cyclooxygenase**-blocker flavonoids (diosmin, fisetin, quercetin, myricetin, galangin, sophoricoside, hesperidin-methylchalcone, oligomeric procyanidin, anthocyanidins (delphinidin, pelargonidin], and the prostaglandin antagonist polyphloretin phosphate and di-4-phloretin phosphate. Outstanding anti-inflammatory effects are displayed by myricetin and delphinidin, which contain vicinal hydroxy groups in ring B. The results confirm the importance of hydroxy group substitution in ring B. The most effective of the examined substances proved to be the prostaglandin antagonist di-4-phloretin phosphate.

ACCESSION NUMBER: 92095096 MEDLINE  
DOCUMENT NUMBER: 92095096 PubMed ID: 1755324  
TITLE: Effect of benzopyrone derivatives on simultaneously  
induced  
croton oil ear oedema and carrageenin paw oedema in rats.  
AUTHOR: Gabor M; Razga Z  
CORPORATE SOURCE: Department of Pharmacodynamics, Albert-Szent Gyorgyi  
University Medical School, Hungary.  
SOURCE: ACTA PHYSIOLOGICA HUNGARICA, (1991) 77 (3-4) 197-207.  
Journal code: 8309201. ISSN: 0231-424X.  
PUB. COUNTRY: Hungary  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199201  
ENTRY DATE: Entered STN: 19920216  
Last Updated on STN: 19920216  
Entered Medline: 19920130

L6 ANSWER 25 OF 54 MEDLINE

ACCESSION NUMBER: 90385090 MEDLINE  
DOCUMENT NUMBER: 90385090 PubMed ID: 2119512  
TITLE: Effect of flavonoids from Spanish and Indian medicinal  
herbs on arachidonate metabolism in rat peritoneal  
leukocytes.  
AUTHOR: Ferrandiz M L; Ramachandran Nair A G; Alcaraz M J  
CORPORATE SOURCE: Departamento de Farmacologia y Farmacotécnia, Facultad de  
Farmacia, Valencia, Spain.  
SOURCE: PHARMAZIE, (1990 Jun) 45 (6) 444-5.  
Journal code: 9800766. ISSN: 0031-7144.  
PUB. COUNTRY: GERMANY, EAST: German Democratic Republic  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199010  
ENTRY DATE: Entered STN: 19901122



Last Updated on STN: 19970203  
Entered Medline: 19901019

L6 ANSWER 26 OF 54 MEDLINE

AB Sulfonic acids of quercetin and morin as well as their ferrous and cupric complexes were synthesized and investigated. Sulfonic derivatives of quercetin were much weaker inhibitors of soybean lipoxygenase than quercetin itself. Morin and its derivatives were inactive. Antioxidant properties of quercetin derivatives were in the same range as for quercetin. Most of the investigated compounds stimulate **cyclooxygenase** when 100 microm of arachidonic acid is used as a substrate. Ferrous complex of quercetin 5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 90356476 MEDLINE

DOCUMENT NUMBER: 90356476 PubMed ID: 2518221

TITLE: The influence of sulfonated **bioflavonoids** on enzymatic oxidation of arachidonic acid and on non-enzymatic lipid oxidation.

AUTHOR: Robak J; Kopacz M

CORPORATE SOURCE: Department of Pharmacology, Copernicus Academy of Medicine,

Krakow, Poland.

SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1989 Sep-Oct)

41 (5) 469-73.

Journal code: 0366561. ISSN: 0301-0244.

PUB. COUNTRY: Poland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199009

ENTRY DATE: Entered STN: 19901026

Last Updated on STN: 19970203

Entered Medline: 19900924

L6 ANSWER 27 OF 54 MEDLINE

AB The influence of 22 flavonoids was studied on the arachidonic acid metabolism in sonicated sheep platelets. Flavones and flavonols possessing

catechol groups inhibited 12-lipoxygenase. Sideritoflavone and quercetagenin-7-O-beta-D-glucoside were more selective than quercetin. Cirsiliol, hypolaetin, hypolaetin-8-O-beta-D-glucoside, gossypetin, gossypin, hibifolin and leucocyanidol were also 12-lipoxygenase inhibitors

with some differences in potency and selectivity. Xanthomicrol was a weak **cyclooxygenase** inhibitor. These results suggest that lipoxygenase inhibition can play a role in the anti-inflammatory activity of hypolaetin-8-O-beta-D-glucoside, sideritoflavone, gossypin and hibifolin. On the other hand, the presence of sideritoflavone,

hypolaetin-8-O-beta-D-glucoside, cirsiliol and xanthomicrol in several species of Sideritis may provide a basis for the use of such plants as anti-inflammatory agents.

ACCESSION NUMBER: 90341392 MEDLINE

DOCUMENT NUMBER: 90341392 PubMed ID: 2116628

TITLE: Inhibition of sheep platelet arachidonate metabolism by flavonoids from Spanish and Indian medicinal herbs.

AUTHOR: Ferrandiz M L; Nair A G; Alcaraz M J

CORPORATE SOURCE: Departamento de Farmacologia y Farmacotecnia, Facultad de Farmacia, Valencia, Spain.

SOURCE: PHARMAZIE, (1990 Mar) 45 (3) 206-8.

Journal code: 9800766. ISSN: 0031-7144.  
PUB. COUNTRY: GERMANY, EAST: German Democratic Republic  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199009  
ENTRY DATE: Entered STN: 19901012  
Last Updated on STN: 19901012  
Entered Medline: 19900910

L6 ANSWER 28 OF 54 MEDLINE

AB Thirty nine flavonoids, isolated from plants, were tested in respect of their influence on soybean lipoxygenase activity, **cyclooxygenase** activity and inhibition of ascorbic acid-stimulated malonaldehyde formation in liver lipids. Almost all of the tested compounds were antioxidants and stimulated **cyclooxygenase** when arachidonic acid was used as a substrate at a concentration of 100 microM. Eleven flavonoids were inhibitors of soybean lipoxygenase. A good correlation between the chemical structure and the tested activity was observed. The most active compounds in all tests were luteolin, 6-hydroxyluteolin, nepetin, quercetagenin, patuletin and myricetin.

ACCESSION NUMBER: 89315476 MEDLINE  
DOCUMENT NUMBER: 89315476 PubMed ID: 3151014  
TITLE: Screening of the influence of flavonoids on lipoxygenase and **cyclooxygenase** activity, as well as on nonenzymic lipid oxidation.  
AUTHOR: Robak J; Shridi F; Wolbis M; Krolikowska M  
CORPORATE SOURCE: Department of Pharmacology, Copernicus Academy of Medicine,  
Krakow, Poland.  
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1988  
Sep-Oct)

40 (5) 451-8.  
Journal code: 0366561. ISSN: 0301-0244.

PUB. COUNTRY: Poland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198908  
ENTRY DATE: Entered STN: 19900309  
Last Updated on STN: 19970203  
Entered Medline: 19890825

L6 ANSWER 29 OF 54 MEDLINE

AB A newly described plant-derived flavonoid, hypolaetin-8-glucoside, which has anti-inflammatory and gastroprotective actions in-vivo, and its corresponding aglycone, hypolaetin, have been compared with 14 other flavonoids for inhibition of eicosanoid generation via the 5-lipoxygenase and cyclo-oxygenase pathways in elicited rat peritoneal leukocytes stimulated with calcium ionophore. Comparable results for the inhibitory profiles of the compounds were obtained using either radioimmunoassay of released eicosanoids or radio-TLC of metabolites formed from labelled arachidonate, but there were differences in absolute potency of the inhibitors. Hypolaetin-8-glucoside was a weak but selective inhibitor of 5-lipoxygenase (IC<sub>50</sub> 56 microM vs 5-lipoxygenase; greater than 1000 microM vs cyclo-oxygenase), whereas the aglycone hypolaetin was a more potent and selective 5-lipoxygenase inhibitor (IC<sub>50</sub> 4.5 microM vs 70 microM).  
Results

with three other glycoside/aglycone pairs confirmed that addition of sugar residues greatly reduces inhibitory potency whilst retaining selectivity against 5-lipoxygenase. Analysis of 12 aglycone flavonoids showed that inhibitory potency and selectivity against 5-lipoxygenase is conferred by the presence of 3'4'-vicinal diol (catechol) in ring B as part of a 3,4-dihydroxycinnamoyl structure as proposed by others and by incorporation of additional hydroxyl substituents. In contrast, "cross-over" of inhibitory selectivity is observed in compounds containing few hydroxyl substituents (with none in ring B) which are selective against cyclo-oxygenase. These results are discussed in relation to possible mechanisms of hypolaetin-8-glucoside's protective actions and the

concept that these inhibitory effects of flavonoids cannot be ascribed to a unitary free radical scavenging action.

ACCESSION NUMBER: 89216479 MEDLINE  
 DOCUMENT NUMBER: 89216479 PubMed ID: 2907559  
 TITLE: Selectivity of neutrophil 5-lipoxygenase and cyclo-oxygenase inhibition by an anti-inflammatory flavonoid glycoside and related aglycone flavonoids.  
 AUTHOR: Moroney M A; Alcaraz M J; Forder R A; Carey F; Hoult J R  
 CORPORATE SOURCE: Department of Pharmacology, King's College, Strand, London, UK.  
 SOURCE: JOURNAL OF PHARMACY AND PHARMACOLOGY, (1988 Nov) 40 (11) 787-92.  
 Journal code: 0376363. ISSN: 0022-3573.  
 PUB. COUNTRY: ENGLAND: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 198905  
 ENTRY DATE: Entered STN: 19900306  
 Last Updated on STN: 19970203  
 Entered Medline: 19890526

L6 ANSWER 30 OF 54 MEDLINE

AB Twenty flavonoids isolated from plants or transformed into methyl or acetyl derivatives were tested with regard to their influence on **cyclooxygenase** from the ram seminal vesicle microsomes and lipoxygenase from soya beans. Moreover, their antioxidant properties were evaluated by estimating the amount of the malonylaldehyde formed from arachidonic acid. Only rhamnetin and myricetin inhibited the soybean lipoxygenase. Most of the tested flavonoids stimulated **cyclooxygenase** at a high (100 microm) substrate concentration, myricetin being the most potent. Rhamnetin was the strongest antioxidant, while myricetin was about ten times weaker. Structural requirements for the **cyclooxygenase** stimulation, lipoxygenase inhibition and antioxidant properties were different in the case of the twenty tested flavonoids.

ACCESSION NUMBER: 87203683 MEDLINE  
 DOCUMENT NUMBER: 87203683 PubMed ID: 3106941  
 TITLE: The effect of some flavonoids on non-enzymatic lipid oxidation and enzymatic oxidation of arachidonic acid.  
 AUTHOR: Robak J; Duniec Z; Rzadkowska-Bodalska H; Olechnowicz-Stepien W; Cisowski W  
 SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1986 Sep-Dec)  
 38 (5-6) 483-91.

JOURNAL code: 0366561. ISSN: 0301-0244.  
PUB. COUNTRY: Poland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198706  
ENTRY DATE: Entered STN: 19900303  
Last Updated on STN: 19970203  
Entered Medline: 19870619

L6 ANSWER 31 OF 54 MEDLINE  
ACCESSION NUMBER: 86094774 MEDLINE  
DOCUMENT NUMBER: 86094774 PubMed ID: 3936076  
TITLE: Effect of hypolaetin-8-glucoside on human platelet aggregation induced by ADP.  
AUTHOR: Villar A; Gasco M A; Alcaraz M J  
SOURCE: PLANTA MEDICA, (1985 Oct) (5) 455-6.  
Journal code: 0066751. ISSN: 0032-0943.  
PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198602  
ENTRY DATE: Entered STN: 19900321  
Last Updated on STN: 19900321  
Entered Medline: 19860219

L6 ANSWER 32 OF 54 MEDLINE  
AB Quercetin, rutin and troxerutin were found to inhibit platelet aggregation on collagen strip superfused with blood of anesthetized cats. Quercetin was the most potent acting at the dose of 1 micrograms/kg. Its effect was shortlasting. Troxerutin was a weak inhibitor of platelet aggregation and its effect was delayed. Quercetin inhibited in 50% 15-lipoxygenase and 12-lipoxygenase in vitro at the concentration of 1.3 microm and 13 microm respectively. It stimulated **cyclooxygenase** when 100 microm of arachidonic acid was applied. Quercetin inhibited **cyclooxygenase** in the presence of 1.6 microm of substrate. Rutin was a weaker inhibitor of lipoxygenase. Troxerutin was inactive in all experiments in vitro. It is concluded that unusually strong effect of quercetin in vivo can be explained neither by its influence on **cyclooxygenase** nor on lipoxygenase because the effects in vitro were observed in much higher concentrations.

ACCESSION NUMBER: 85190017 MEDLINE  
DOCUMENT NUMBER: 85190017 PubMed ID: 6442773  
TITLE: Antiaggregatory effects of flavonoids in vivo and their influence on lipoxygenase and **cyclooxygenase** in vitro.  
AUTHOR: Swies J; Robak J; Dabrowski L; Duniec Z; Michalska Z; Gryglewski R J  
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1984 Sep-Oct)  
36 (5) 455-63.  
Journal code: 0366561. ISSN: 0301-0244.  
PUB. COUNTRY: Poland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198506  
ENTRY DATE: Entered STN: 19900320

Last Updated on STN: 19970203  
Entered Medline: 19850619

L6 ANSWER 33 OF 54 MEDLINE

AB The lipoxygenase and/or **cyclooxygenase** inhibitors nordihydroguaiaretic acid (NDGA), 4,8,11,14-eicosatetraynoic acid (ETYA) and the **bioflavonoid**, quercetin, also inhibit phospholipase A2 (phosphatidase 2-acyl hydrolase; EC 3.1.1.4) activity of neutrophil acid extracts and sonicates. The IC50 are 13 microM for NDGA, 22 microM for ETYA, and 100 microM for quercetin when measured on the neutrophil acid extracts; the IC50 obtained with the sonicates are 11 microM, 12 microM and 57 microM, respectively. p-Bromophenylacetyl bromide (BPB) inhibits the phospholipase A2 activity of neutrophil acid extracts with an IC50 of 10 microM. In contrast, intact neutrophils incubated for up to 1 h with BPB, washed to remove the drug, and sonicated to expose the phospholipase A2, lose less than 20% of their activity. This strongly suggests that BPB does

not inhibit neutrophil function by preventing phospholipase action.

ACCESSION NUMBER: 85129557 MEDLINE  
DOCUMENT NUMBER: 85129557 PubMed ID: 3972457  
TITLE: Inhibition of neutrophil phospholipase A2 by p-bromophenylacetyl bromide, nordihydroguaiaretic acid, 5,8,11,14-eicosatetraynoic acid and quercetin.  
AUTHOR: Lanni C; Becker E L  
CONTRACT NUMBER: AI-09648 (NIAID)  
SOURCE: INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY, (1985) 76 (3) 214-7.  
Journal code: 0404561. ISSN: 0020-5915.  
PUB. COUNTRY: Switzerland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198504  
ENTRY DATE: Entered STN: 19900320  
Last Updated on STN: 19970203  
Entered Medline: 19850415

L6 ANSWER 34 OF 54 MEDLINE

AB The mechanism of the antiaggregating activity of flavonoids was studied in vitro. The activity of fifteen different compounds was tested on platelet aggregation and arachidonic acid metabolism. The effect of flavonoids on platelet adenosine 3',5'-cyclic monophosphate (cyclic AMP) levels under basal conditions, as well as after stimulation by prostacyclin (PGI2), was also measured. The glycons of flavonoids in general and the flavanone derivatives that we tested did not affect platelet function. On the other hand, flavone, chrysin, apigenin and phloretin inhibited platelet aggregation by depressing the **cyclooxygenase** pathway. In addition, flavone, chrysin and apigenin reduced the platelet cyclic AMP response to PGI2. This effect was probably mediated by an inhibition of adenylate cyclase. Myricetin and quercetin, however, increased the PGI2-stimulated rise of platelet cyclic AMP. Both of these flavonoids inhibited primarily lipoxygenase activity. Modification of platelet cyclic AMP metabolism through inhibition of phosphodiesterase activity was found to be the probable mechanism of their antiaggregating effect.

ACCESSION NUMBER: 84231526 MEDLINE  
DOCUMENT NUMBER: 84231526 PubMed ID: 6329230  
TITLE: Modification of platelet function and arachidonic acid

metabolism by **bioflavonoids**. Structure-activity relations.

AUTHOR: Landolfi R; Mower R L; Steiner M  
 CONTRACT NUMBER: HL 22951 (NHLBI)  
 SOURCE: BIOCHEMICAL PHARMACOLOGY, (1984 May 1) 33 (9) 1525-30.  
 Journal code: 0101032. ISSN: 0006-2952.  
 PUB. COUNTRY: ENGLAND: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 198406  
 ENTRY DATE: Entered STN: 19900320  
 Last Updated on STN: 19970203  
 Entered Medline: 19840622

L6 ANSWER 35 OF 54 MEDLINE

AB Various flavonoids were found to be relatively selective inhibitors of arachidonate 5-lipoxygenase which initiates the biosynthesis of leukotrienes with the activity of slow reacting substance of anaphylaxis. Cirsiol (3',4',5-trihydroxy-6,7-dimethoxyflavone) was most potent, and the enzyme partially purified from rat basophilic leukemia cells was inhibited by 97% at a concentration of 10 microM (IC50, about 0.1 microM).

12-Lipoxygenases from bovine platelets and porcine leukocytes were also inhibited but at higher concentrations (IC50, about 1 microM), and fatty acid **cyclooxygenase** purified from bovine vesicular gland was scarcely affected. The compound at 10 microM suppressed by 99% the immunological release of slow reacting substance of anaphylaxis from passively sensitized guinea pig lung (IC50, about 0.4 microM).

ACCESSION NUMBER: 84079869 MEDLINE  
 DOCUMENT NUMBER: 84079869 PubMed ID: 6418162  
 TITLE: Flavonoids: potent inhibitors of arachidonate 5-lipoxygenase.  
 AUTHOR: Yoshimoto T; Furukawa M; Yamamoto S; Horie T; Watanabe-Kohn S  
 SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1983 Oct 31) 116 (2) 612-8.  
 Journal code: 0372516. ISSN: 0006-291X.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 198401  
 ENTRY DATE: Entered STN: 19900319  
 Last Updated on STN: 19970203  
 Entered Medline: 19840107

L6 ANSWER 36 OF 54 MEDLINE

AB The stimulating or inhibiting influences of 33 phenolic compounds on the prostaglandin synthetase of rat renal medulla were tested. Dihydroxyphenylcarbonic acids clearly proved to be activators of the prostaglandin synthetase. Dimethoxyphenylcarbonic acids were ineffective. Aminoethylphenols as well as p-substituted monohydroxybenzenes with a carbonic acid side chain were clear stimulators in contrast to their alkyl

derivatives which are pronounced inhibitors. Among the tested **bioflavonoids** (+)-cyanidanol-3 and morin were inhibitors of the prostaglandin synthesis. Flavonoids with polar substitution in 3,5,7-position such as rutin on the other hand showed activating properties.

ACCESSION NUMBER: 80011690 MEDLINE  
 DOCUMENT NUMBER: 80011690 PubMed ID: 113685  
 TITLE: A structure-activity study on the influence of phenolic compounds and **bioflavonoids** on rat renal prostaglandin synthetase.  
 AUTHOR: Baumann J; von Bruchhausen F; Wurm G  
 SOURCE: NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, (1979 May 28) 307 (1) 73-8.  
 Journal code: 0326264. ISSN: 0028-1298.  
 PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 197911  
 ENTRY DATE: Entered STN: 19900315  
 Last Updated on STN: 19900315  
 Entered Medline: 19791128

L6 ANSWER 37 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AB Amentoflavone, a biflavonoid with antiinflammatory activity, downregulates COX-2 expression in TNFalpha-activated A549 cells with concomitant inhibition of NF-kappaB mediated signaling cascades. We demonstrate here that amentoflavone inhibits NF-kappaB/DNA binding activity potently along with inhibition of degradation of IkappaBalpha and NF-kappaB translocation into nucleus in TNFalpha-activated A549 cells. This flavonoid upregulates PPAR gamma, a transcription factor involved in repressing many cytokine-induced gene expressions. Hence amentoflavone, a dietary constituent, may be of therapeutic value for several lung diseases where COX-2 plays an important role.

ACCESSION NUMBER: 2002:560089 BIOSIS  
 DOCUMENT NUMBER: PREV200200560089  
 TITLE: Inhibition of TNFalpha-induced **cyclooxygenase-2** expression by amentoflavone through suppression of NF-kappaB activation in A549 cells.  
 AUTHOR(S): Banerjee, Tinku (1); Valacchi, Giuseppe; Ziboh, Vincent A.;  
 van der Vliet, Albert  
 CORPORATE SOURCE: (1) Department of Dermatology, School of Medicine, University of California, TB No. 192, Davis, CA, 95616: tinku2@hotmail.com USA  
 SOURCE: Molecular and Cellular Biochemistry, (September, 2002) Vol. 238, No. 1-2, pp. 105-110.  
<http://www.kluweronline.com/issn/0300-8177>. print.  
 ISSN: 0300-8177.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English

L6 ANSWER 38 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AB Inflammation is complex series of vascular, leukocyte, and plasma-interactive events of the immune responses that occur in response to injury. The immune response is regulated by a highly complexed and intricate network of control elements. A dynamic and ever-shifting balance exists between pro-inflammatory cytokines and anti-inflammatory components of the human immune system. The regulation of inflammation by these

cytokines and cytokine inhibitors is complicated by the fact that the immune system has redundant pathways with multiple elements having similar physiologic effects. In this study, we isolated and identified the anti-inflammatory molecule, tetramethoxyflavone (p7F) from *Artemisia absinthium* and investigated their ability to inhibit the inflammatory responses. p7F inhibited the following effects: 1) IL-1-induced proliferation of Th2 cells, 2) TNF- $\alpha$ -induced expressions of ICAM-1, COX-2 and iNOS. However, anti-inflammatory cytokine IL-4 and IL-10 were up-regulated. Thus, these inhibitors can be clinically applied in the treatment of autoimmune diseases such as rheumatoid arthritis.

ACCESSION NUMBER: 2002:370536 BIOSIS  
DOCUMENT NUMBER: PREV200200370536  
TITLE: Identification of p7F, a **bioflavonoid** from natural product and analysis of its anti-inflammatory effects.  
AUTHOR(S): Lee, HeeGu (1); Kim, HyoSun (1); Yu, KyungAe (1); Choe, YongKyung (1); Lim, Jong-Seok (1); Yoon, Do-Young (1)  
CORPORATE SOURCE: (1) Cell Biol Lab, KRIBB, Yuseong, P. O. Box 115, Taejeon, ChungNam, 303-333 South Korea  
SOURCE: FASEB Journal, (March 22, 2002) Vol. 16, No. 5, pp. A1054.  
<http://www.fasebj.org/>. print.  
Meeting Info.: Annual Meeting of Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002  
ISSN: 0892-6638.  
DOCUMENT TYPE: Conference  
LANGUAGE: English

L6 ANSWER 39 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AB A method for inhibiting **cyclooxygenase** enzymes and inflammation in a mammal using a cherry or cherry anthocyanins, **bioflavonoids** and phenolics is described. In particular a mixture including the anthocyanins, the **bioflavonoids** and the phenolics is described for this use.

ACCESSION NUMBER: 2001:390039 BIOSIS  
DOCUMENT NUMBER: PREV200100390039  
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry **bioflavonoids**.  
AUTHOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.  
ASSIGNEE: Board of Trustees operating Michigan State Univeristy, East Lansing, MI, USA  
PATENT INFORMATION: US 6194469 February 27, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Feb. 27, 2001) Vol. 1243, No. 4, pp. No Pagination. e-file.  
ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English

L6 ANSWER 40 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AB Several flavonoids and isoflavonoids isolated from Balaton<sup>TM</sup> tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an  
an IC50 value of 80  $\mu$ M. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180  $\mu$ M. The structure-activity relationships of flavonoids and isoflavonoids revealed



that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl

group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:341746 BIOSIS

DOCUMENT NUMBER: PREV200000341746

TITLE: **Cyclooxygenase** active **bioflavonoids** from Balaton<sup>TM</sup> tart cherry and their structure activity relationships.

AUTHOR(S): Wang, H.; Nair, M. G. (1); Strasburg, G. M.; Booren, A. M.;

Gray, I.; Dewitt, D. L.

CORPORATE SOURCE: (1) Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, East Lansing, MI, 48824 USA

SOURCE: Phytomedicine (Jena), (March, 2000) Vol. 7, No. 1, pp. 15-19. print.  
ISSN: 0944-7113.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

L6 ANSWER 41 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AB Biflavonoid is one of unique classes of naturally-occurring **bioflavonoids**. Certain biflavonoids including amentoflavone were previously reported to have inhibitory effect on the group II phospholipase A2 activity. Amentoflavone was also found to inhibit **cyclooxygenase** from guinea-pig epidermis without affecting lipoxxygenase. In this study, anti-inflammatory and analgesic activities

of

amentoflavone were evaluated. When amentoflavone was administered intraperitoneally, it showed a potent anti-inflammatory activity as determined by amelioration of croton-oil induced mouse ear edema. It also showed a potent anti-inflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone

(35

mg/kg) and indomethacin (10 mg/kg). However, amentoflavone did not show a significant inhibitory activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addition, amentoflavone was found to possess a potent analgesic activity in the acetic acid writhing test

(ED50

= 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that amentoflavone may be a potential lead for a new type of anti-inflammatory agents having dual inhibitory activity of group II phospholipase A, and **cyclooxygenase**.

ACCESSION NUMBER: 1998:437991 BIOSIS

DOCUMENT NUMBER: PREV199800437991

TITLE: Amentoflavone, a plant biflavone: A new potential anti-inflammatory agent.

AUTHOR(S): Kim, Hee Kee; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam Sik; Kim, Hyun Pyo (1)

CORPORATE SOURCE: (1) Coll. Pharm., Kangwon Natl. Univ., Chunchon 200-701 South Korea

SOURCE: Archives of Pharmacal Research (Seoul), (Aug., 1998) Vol. 21, No. 4, pp. 406-410.  
ISSN: 0253-6269.

DOCUMENT TYPE: Article

LANGUAGE: English

L6 ANSWER 42 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AB Flavonoids with special hydroxylation patterns are inhibitors of **cyclooxygenase** and lipoxigenases of the arachidonic acid cascade. To get metabolically more stable compounds with higher lipophilicity and with a similar molecular topography 2-phenyl-1,4-naphthoquinones with analogous hydroxylation patterns of **bioflavonoids** are synthesized on two different ways: 1. Meerwein arylation of 1,4-naphthoquinones (1a-e) with methoxybenzendiazonium tetrafluoroborates (2a-b) and 2. regiospecific respectively regioselective arylation of 2-halogen- and 2,3-dihalogen-1,4-naphthoquinone derivatives (9a-d) with 2,6-di-tert-butylphenol followed by partial or complete debutylation. In the case of preparing 4-hydroxyphenyl derivatives, the second way is the more effective method because the synthesis by Meerwein arylation needs two additional protecting groups. The final deprotection results in

rather

low yields. With the second method without additional protecting procedures it was possible to get 12c and 13c in quite a short time.

These

two compounds possess the essential hydroxyl functions for the inhibition of cyclo- and 5-lipoxygenase as the natural flavonoids apigenin and kaempferol do.

ACCESSION NUMBER: 1997:519405 BIOSIS

DOCUMENT NUMBER: PREV199799818608

TITLE: 1,4-Naphthoquinones, XXVI: Phenyl-1,4-naphthoquinone derivatives with the hydroxylation patterns of **bioflavonoids**.

AUTHOR(S): Wurm, G. (1); Gurka, H.-J.

CORPORATE SOURCE: (1) Inst. Pharm. I, Koenigin-Luise-Str. 2-4, D-14195 Berlin

Germany

SOURCE: Pharmazie, (1997) Vol. 52, No. 10, pp. 739.

ISSN: 0031-7144.

DOCUMENT TYPE: Article

LANGUAGE: German

SUMMARY LANGUAGE: German; English

L6 ANSWER 43 OF 54 BIOSIS . COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AB Certain **bioflavonoids** and phenolic compounds have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring preparations. Inhibition of catecholamine reuptake with cocaine or catecholamine metabolism with tropolone and parglyne (monoamine oxidase and catecholamine-O-methyl transferase inhibitors, respectively) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein (10<sup>-5</sup> M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine alpha-1 and alpha-2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated the flavone potentiation required three contiguous A or B in hydroxylations. Several nonflavone phenol derivatives with three contiguous hydroxyls

also

potentiated nerve stimulation responses. As baicalein is a potent lipoxigenase inhibitor, comparisons were made between potentiating

ability

and lipoxigenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and

potentiation of contractile response in the femoral artery. Additionally, the specific substrate analog lipoxxygenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the a or b ring increase in vitro vascular responsiveness via post-synaptic process, independent of **cyclooxygenase**, lipoxxygenase, monoamine oxidase or catecholamine-O-methyl transferase activity.

ACCESSION NUMBER: 1993:31884 BIOSIS  
DOCUMENT NUMBER: PREV199395020084  
TITLE: Flavonoid potentiation of contractile responses in rat blood vessels.  
AUTHOR(S): Berger, Morris E.; Golub, Michael S. (1); Chang, Chwen-Tzuei; Al-Kharouf, Jawad A.; Nyby, Michael D.; Hori, Mark; Brickman, Arnold S.; Tuck, Michael L.  
CORPORATE SOURCE: (1) Sepulveda VA Med. Center, 16111 Plummer St., Sepulveda, Calif. 91343  
SOURCE: Journal of Pharmacology and Experimental Therapeutics, (1992) Vol. 263, No. 1, pp. 78-83.  
ISSN: 0022-3565.  
DOCUMENT TYPE: Article  
LANGUAGE: English

L6 ANSWER 44 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AB Sulfonic acids of quercetin and morin as well as their ferrous and cupric complexes were synthesized and investigated. Sulfonic derivatives of quercetin were much weaker inhibitors of soybean lipoxxygenase than quercetin itself. Morin and its derivatives were inactive. Antioxidant properties of quercetin derivatives were in the same range as for quercetin. Most of the investigated compounds stimulate **cyclooxygenase** when 100 .mu.M of arachidonic acid is used as a substrate. Ferrous complex of quercetin 5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 1990:418342 BIOSIS  
DOCUMENT NUMBER: BA90:79143  
TITLE: THE INFLUENCE OF SULFONATED **BIOFLAVONOIDS** ON ENZYMATIC OXIDATION OF ARACHIDONIC ACID AND ON NON-ENZYMATIC LIPID OXIDATION.  
AUTHOR(S): ROBAK J; KOPACZ M  
CORPORATE SOURCE: DEP. PHARMACOL., COPERNICUS ACAD. OF MED., 31-531 KRAKOW, GRZEGORZECKA 16, POLAND.  
SOURCE: POL J PHARMACOL PHARM, (1989 (1990)) 41 (5), 469-474.  
CODEN: PJPPAA. ISSN: 0301-0244.  
FILE SEGMENT: BA; OLD  
LANGUAGE: English

L6 ANSWER 45 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AB The lipoxxygenase and/or **cyclooxygenase** inhibitors nordihydroguaiaretic acid (NDGA), 5, 8, 11, 14-eicosatetrayenoic acid (ETYA) and the **bioflavonoid**, quercetin, also inhibit phospholipase A2 (phosphatidase 2-acyl hydrolase; EC 3.1.1.4) activity of [rabbit] neutrophil acid extracts and sonicates. The IC50 are 13 .mu.M for NDGA, 22 .mu.M for ETYA and 100 .mu.M for quercetin when measured on the neutrophil acid extracts; the IC50 obtained with the sonicates are 11, 12 and 57 .mu.M, respectively. p-Bromophenylacetyl bromide (BPB) inhibits the phospholipase A2 activity of neutrophil acid extracts with an IC50 of 10 .mu.M. Intact neutrophils incubated for up to 1 h with BPB, washed to

remove the drug and sonicated to expose the phospholipase A2, lose < 20% of their activity. This strongly suggests that BPB does not inhibit neutrophil function by preventing phospholipase action.

ACCESSION NUMBER: 1985:312250 BIOSIS  
DOCUMENT NUMBER: BA79:92246  
TITLE: INHIBITION OF NEUTROPHIL PHOSPHOLIPASE A-2 BY P  
BROMOPHENYLACYL BROMIDE NORDIHYDROGUAIARETIC-ACID 5 8 11

14

EICOSATETRAENOIC-ACID AND QUERCETIN.  
AUTHOR(S): LANNI C; BECKER E L  
CORPORATE SOURCE: DEP. PATHOLOGY, UNIV. CONN. HEALTH CENTER, FARMINGTON, CT  
06032, USA.  
SOURCE: INT ARCH ALLERGY APPL IMMUNOL, (1985) 76 (3), 214-217.  
CODEN: IAAAAM. ISSN: 0020-5915.  
FILE SEGMENT: BA; OLD  
LANGUAGE: English

L6 ANSWER 46 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB The invention describes methods of using creatine compds. such as creatine

kinase inhibitors, and more particularly, cyclocreatine and homocyclocreatine, to inhibit thrombin-induced cytoskeletal reorganization, platelet aggregation, inflammatory processes, endothelial cell contraction and related cardiovascular and CNS disorders. Pharmaceutically effective amts. of creatine compds. are administered to subjects in need thereof to thereby prevent and/or treat diseases and/or pathol. conditions such as thrombosis, thrombocytopenia, atherosclerosis, coronary artery disease, unstable angina pectoris, myocardial infarction, stroke, coagulopathies, and transient ischemia attacks.

ACCESSION NUMBER: 2002:616366 CAPLUS  
DOCUMENT NUMBER: 137:163806  
TITLE: Inhibition of thrombin-induced platelet aggregation  
by creatine kinase inhibitors  
INVENTOR(S): Mahajan, Vinit; Cunningham, Dennis D.; Pai, Sadashiva  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 20 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002111316	A1	20020815	US 2001-960822	20010921
US 6444695	B2	20020903		

PRIORITY APPLN. INFO.: US 2000-234875P P 20000921

L6 ANSWER 47 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Claimed is a method for inhibiting **cyclooxygenase** or prostaglandin H synthase and for inhibiting inflammation with at least one

compd. anthocyanin selected from the group consisting of cyanidin-3-glucosylrutinoside, cyanidin-3-rutinoside and cyanidin-3-glucoside isolated from the fruit of a cherry. In particular

a

mixt. including the anthocyanins, **bioflavonoids** and phenolics is described for this use.

ACCESSION NUMBER: 2001:146488 CAPLUS

DOCUMENT NUMBER: 134:183458  
 TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry **bioflavonoids**  
 INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.  
 PATENT ASSIGNEE(S): Board of Trustees Operating Michigan State University,  
 SOURCE: USA  
 U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6194469	B1	20010227	US 1999-337313	19990621
US 6423365	B1	20020723	US 1999-317310	19990524
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531493	T2	20020924	JP 2000-586317	19991210
US 2001020009	A1	20010906	US 2000-749856	20001228
PRIORITY APPLN. INFO.:				
			US 1998-111945P	P 19981211
			US 1999-120178P	P 19990216
			US 1999-317310	A2 19990524
			US 1999-337313	A2 19990621
			WO 1999-US29261	W 19991210

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L6 ANSWER 48 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with

an

IC50 value of 80 .mu.M. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 .mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:407652 CAPLUS

DOCUMENT NUMBER: 133:261100  
 TITLE: **Cyclooxygenase active bioflavonoids**  
 from Balaton tart cherry and their structure activity  
 relationships  
 AUTHOR(S): Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A.  
 M.; Gray, I.; Dewitt, D. L.  
 CORPORATE SOURCE: Bioactive Natural Products Laboratory, Department of  
 Horticulture and National Food Safety and Toxicology  
 Center, Michigan State University, Michigan, MI, USA  
 SOURCE: Phytomedicine (2000), 7(1), 15-19  
 CODEN: PYTOEY; ISSN: 0944-7113  
 PUBLISHER: Urban & Fischer Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR  
 THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L6 ANSWER 49 OF 54 CAPLUS COPYRIGHT 2003 ACS  
 AB A method for inhibiting **cyclooxygenase** (COX) enzymes and  
 inflammation in a mammal using a cherry or cherry anthocyanins,  
**bioflavonoids**, and phenolics is described. Among the flavonoids  
 tested, kaempferol showed the highest COX-1 inhibitory activity with an  
 IC50 value of 180.mu.M, followed by luteolin, quercetin, naringenin and  
 quercetin 3-rhamnoside. Genistein showed the highest COX-1 inhibitory  
 activity among the isoflavonoids tested with an IC50 value of 80.mu.M.  
 The structure-activity relationships of flavonoids and isoflavonoids  
 revealed that hydroxyl groups at C4', C5, and C7 in isoflavonoids were  
 essential for appreciable COX-1 inhibitory activity. Also, the C2-C3  
 double bond in flavonoids is important for COX-1 inhibitory activity.  
 However, hydroxyl group at C3' position decreased the COX-1/COX-2  
 inhibitory activity by flavonoids.  
 ACCESSION NUMBER: 2000:401636 CAPLUS  
 DOCUMENT NUMBER: 133:26836  
 TITLE: Method for inhibiting **cyclooxygenase** and  
 inflammation using cherry **bioflavonoids**  
 INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale  
 M.; Booren, Alden M.; Gray, James I.  
 PATENT ASSIGNEE(S): Michigan State University, USA  
 SOURCE: PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

US 6423365	B1	20020723	US 1999-317310	19990524
US 6194469	B1	20010227	US 1999-337313	19990621
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531493	T2	20020924	JP 2000-586317	19991210
PRIORITY APPLN. INFO.:			US 1998-111945P	P 19981211
			US 1999-120178P	P 19990216
			US 1999-317310	A2 19990524
			US 1999-337313	A2 19990621
			WO 1999-US29261	W 19991210

L6 ANSWER 50 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB A red blood cell storage compn. includes a compn. of red blood cells and biochem. altering reagents, the biochem. altering reagents being present at a concn. so as to reduce the percent hemolysis of the red blood cells during the freeze-thaw cycle below that of the percent hemolysis of the red blood cells in the absence of the biochem. altering reagents. The

red

blood cell storage compn. preferably includes reagents selected from: modifiers of glycolytic/metabolic components, modifiers of antioxidant potential, effectors of intracellular ionic distribution, modifiers of membrane fluidity, modifiers of cytoskeletal structure, effectors of the **cyclooxygenase** second messenger pathway, effectors of the lipooxygenase second messenger pathway, effectors of the hexose monophosphate second messenger pathway, effectors of the phosphorylation second messenger pathway, modifiers of specific messenger mols., and combinations thereof.

ACCESSION NUMBER: 1999:763819 CAPLUS  
DOCUMENT NUMBER: 132:1812  
TITLE: Cryopreservation of human red blood cells  
INVENTOR(S): Livesey, Stephen Anthony; Burnett, Michael Brian; Connor, Jerome; Wagner, Christopher Todd  
PATENT ASSIGNEE(S): Lifecell Corporation, USA  
SOURCE: PCT Int. Appl., 39 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9960849	A1	19991202	WO 1999-US11674	19990526
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2332986	AA	19991202	CA 1999-2332986	19990526
AU 9942097	A1	19991213	AU 1999-42097	19990526
EP 1082006	A1	20010314	EP 1999-925899	19990526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002516254	T2	20020604	JP 2000-550327	19990526
PRIORITY APPLN. INFO.:			US 1998-86836P	P 19980526

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L6 ANSWER 51 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Biflavonoid is one of unique of naturally-occurring **bioflavonoids**. Certain biflavonoids, including amentoflavone (I), were previously reported to have inhibitory effect on group II phospholipase A2 activity. I was also found to inhibit arachidonate **cyclooxygenase** from guinea pig epidermis without affecting lipoxygenase. Here, the antiinflammatory and analgesic activities of I were evaluated. When I

was

administered i.p., it showed a potent antiinflammatory activity as detd. by amelioration of croton oil-induced mouse ear edema. I also showed a potent antiinflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone (35 mg/kg) and indomethacin (10 mg/kg). However, I did not show a significant

inhibitory

activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addn., I was found to possess a potent analgesic activity in the acetic acid writhing test (ED50 = 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that I may be a potential lead for a new type of antiinflammatory agents having dual inhibitory activity for group II phospholipase A2 and arachidonate **cyclooxygenase**.

ACCESSION NUMBER: 1998:539672 CAPLUS

DOCUMENT NUMBER: 129:285741

TITLE: Amentoflavone, a plant biflavone: a new potential anti-inflammatory agent

AUTHOR(S): Kim, Hee Kee; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam Sik; Kim, Hyun Pyo

CORPORATE SOURCE: College of Pharmacy, Kangwon National Univ., Chunchon,

SOURCE: 200-701, S. Korea  
Archives of Pharmacal Research (1998), 21(4), 406-410  
CODEN: APHRDQ; ISSN: 0253-6269

PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR  
THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L6 ANSWER 52 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Certain **bioflavonoids** and phenolic compds. have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring preps.

Inhibition

of catecholamine reuptake with cocaine or catecholamine metab. with tropolone and pargyline (monoamine oxidase and catecholamine-O-Me transferase inhibitors, resp.) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein (10-5 M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine .alpha.-1 and .alpha.-2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated that flavone potentiation required three contiguous A or B ring hydroxylations.



Several nonflavone phenol derivs. with three contiguous hydroxyls also potentiated nerve stimulation responses. As baicalein is a potent lipoxigenase inhibitor, comparisons were made between potentiating ability and lipoxigenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and potentiation of contractile responses in the femoral artery. Addnl., the specific substrate analog lipoxigenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the A or B ring increase in vitro vascular responsiveness via a postsynaptic process, independent of **cyclooxygenase**, lipoxigenase, monoamine oxidase or catecholamine-O-Me transferase activity.

ACCESSION NUMBER: 1993:93787 CAPLUS  
DOCUMENT NUMBER: 118:93787  
TITLE: Flavonoid potentiation of contractile responses in rat blood vessels  
AUTHOR(S): Berger, Morris E.; Golub, Michael S.; Chang, Chwen Tzuei; Al-Kharouf, Jawad A.; Nyby, Michael D.; Hori, Mark; Brickman, Arnold S.; Tuck, Michael L.  
CORPORATE SOURCE: Sepulveda VA Med. Cent., Sepulveda, CA, USA  
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1992), 263(1), 78-83  
CODEN: JPETAB; ISSN: 0022-3565  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 53 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Sulfonic acids of quercetin and morin and their ferrous and cupric ion complexes were synthesized and investigated. Sulfonic derivs. of quercetin were much weaker inhibitors of soybean lipoxigenase than quercetin itself. Morin and its deriv. were inactive. The antioxidant properties of quercetin derivs. were in the same range as those of quercetin. Most of the investigated compds. stimulated **cyclooxygenase** when 100 .mu.M of arachidonic acid was used as a substrate. The ferrous complex of quercetin-5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 1990:584662 CAPLUS  
DOCUMENT NUMBER: 113:184662  
TITLE: The influence of sulfonated **bioflavonoids** on enzymic oxidation of arachidonic acid and on nonenzymic lipid oxidation  
AUTHOR(S): Robak, Jadwiga; Kopacz, Maria  
CORPORATE SOURCE: Dep. Pharmacol., Copernicus Acad. Med., Krakow, 31-531, Pol.  
SOURCE: Polish Journal of Pharmacology and Pharmacy (1989), 41(5), 469-73  
CODEN: PJPPAA; ISSN: 0301-0244  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 54 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB The mechanism of the antiaggregating activity of flavonoids was studied in vitro. The activity of 15 different compds. was tested on platelet

aggregation and arachidonic acid [506-32-1] metab. The effect of flavonoids on platelet adenosine cyclic AMP [60-92-4] levels under basal conditions, as well as after stimulation by prostacyclin (PGI2) [35121-78-9], was also measure. The glycons of flavonoids in general and the flavanone derivs. that were tested did not affect platelet function. On the other hand flavone [525-82-6], chrysin [480-40-0], apigenin [520-36-5] and phloretin [60-82-2] inhibited platelet aggregation by depressing the **cyclooxygenase** [39391-18-9] pathway. In addn., flavone, chrysin and apigenin reduced the platelet cyclic AMP response to PGI2. This effect was probably mediated by an inhibition of adenylate cyclase [9012-42-4]. Myricetin [529-44-2] and quercetin [117-39-5] however, increased the PGI2-stimulated rise of platelet cyclic AMP. Both of these flavonoids inhibited primarily lipooxygenase [9029-60-1] activity. Modification of platelet cyclic AMP metab. through inhibition of phosphodiesterase [9025-82-5] activity was found to be the probable mechanism of their antiaggregating effect.

ACCESSION NUMBER: 1984:448182 CAPLUS  
DOCUMENT NUMBER: 101:48182  
TITLE: Modification of platelet function and arachidonic acid metabolism by **bioflavonoids**.  
Structure-activity relations  
AUTHOR(S): Landolfi, Raffaele; Mower, Richard L.; Steiner, Manfred  
CORPORATE SOURCE: Mem. Hosp., Brown Univ., Pawtucket, RI, 02860, USA  
SOURCE: Biochemical Pharmacology (1984), 33(9), 1525-30  
CODEN: BCPA6; ISSN: 0006-2952  
DOCUMENT TYPE: Journal  
LANGUAGE: English

=> s inhibition and nuclear(w)factor(w)kappa(w)B?

TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

1 FILES SEARCHED...

TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

2 FILES SEARCHED...

3 FILES SEARCHED...

TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

COMMAND INTERRUPTED

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Desk by telephone or via SEND in the STNMAIL file.

=> s inhibition and cyclooxygenase?

L7 18064 INHIBITION AND CYCLOOXYGENASE?

=> s l7 and rutin?

L8 27 L7 AND RUTIN?

=> d l8 1-27

L8 ANSWER 1 OF 27 MEDLINE

AN 2002416113 MEDLINE

DN 22093079 PubMed ID: 12098601

TI In vitro and in vivo inhibitory activities of **rutin**, wogonin, and quercetin on lipopolysaccharide-induced nitric oxide and prostaglandin

E(2) production.

AU Shen Shing-Chuan; Lee Woan-Ruoh; Lin Hui-Yi; Huang Ho-Chun; Ko Ching-Huai;

Yang Ling-Ling; Chen Yen-Chou  
CS Department of Dermatology, School of Medicine, Taipei Medical University,  
Taipei, Taiwan.  
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (2002 Jun 20) 446 (1-3) 187-94.  
Journal code: 1254354. ISSN: 0014-2999.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200301  
ED Entered STN: 20020813  
Last Updated on STN: 20030109  
Entered Medline: 20030108

L8 ANSWER 2 OF 27 MEDLINE  
AN 2001455188 MEDLINE  
DN 21392035 PubMed ID: 11500931  
TI **Inhibition** of nitric oxide synthase inhibitors and  
lipopolysaccharide induced inducible NOS and **cyclooxygenase-2**  
gene expressions by **rutin**, quercetin, and quercetin pentaacetate  
in RAW 264.7 macrophages.  
AU Chen Y C; Shen S C; Lee W R; Hou W C; Yang L L; Lee T J  
CS Graduate Institute of Pharmacognosy Science, Taipei Medical University,  
Taipei, Taiwan.. yc3270@tmu.edu.tw  
SO JOURNAL OF CELLULAR BIOCHEMISTRY, (2001) 82 (4) 537-48.  
Journal code: 8205768. ISSN: 0730-2312.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200110  
ED Entered STN: 20010814  
Last Updated on STN: 20011015  
Entered Medline: 20011011

L8 ANSWER 3 OF 27 MEDLINE  
AN 88283567 MEDLINE  
DN 88283567 PubMed ID: 3293993  
TI Use of minoxidil to demonstrate that prostacyclin is not the mediator of  
bone resorption stimulated by growth factors in mouse calvariae.  
AU Tashjian A H Jr; Bosma T J; Levine L  
CS Laboratory of Toxicology, Harvard School of Public Health, Boston,  
Massachusetts 02115.  
NC DK-10206 (NIDDK)  
GM-27256 (NIGMS)  
SO ENDOCRINOLOGY, (1988 Aug) 123 (2) 969-74.  
Journal code: 0375040. ISSN: 0013-7227.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 198808  
ED Entered STN: 19900308  
Last Updated on STN: 20000303  
Entered Medline: 19880829

L8 ANSWER 4 OF 27 MEDLINE  
AN 85226521 MEDLINE  
DN 85226521 PubMed ID: 3924112  
TI Interference of some flavonoids and non-steroidal anti-inflammatory drugs

with oxidative metabolism of arachidonic acid by human platelets and neutrophils.

AU Corvazier E; Maclouf J  
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1985 Jul 9) 835 (2) 315-21.  
Journal code: 0217513. ISSN: 0006-3002.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198508  
ED Entered STN: 19900320  
Last Updated on STN: 19970203  
Entered Medline: 19850816

L8 ANSWER 5 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2002:437786 BIOSIS  
DN PREV200200437786

TI In vitro and in vivo inhibitory activities of **rutin**, wogonin,  
and quercetin on lipopolysaccharide-induced nitric oxide and  
prostaglandin  
E2 production.

AU Shen, Shing-Chuan; Lee, Woan-Ruoh; Lin, Hui-Yi; Huang, Ho-Chun; Ko,  
Ching-Huai; Yang, Ling-Ling; Chen, Yen-Chou (1)  
CS (1) Graduate Institute of Pharmacognosy Science, Taipei Medical  
University, 250 Wu-Hsing Street, Taipei: yc3270@tmu.edu.tw Taiwan  
SO European Journal of Pharmacology, (20 June, 2002) Vol. 446, No. 1-3, pp.  
187-194. <http://www.elsevier.com/locate/ejpmolpharm>. print.  
ISSN: 0014-2999.  
DT Article  
LA English

L8 ANSWER 6 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:408783 BIOSIS  
DN PREV200100408783

TI **Inhibition** of nitric oxide synthase inhibitors and  
lipopolysaccharide induced inducible NOS and **cyclooxygenase-2**  
gene expressions by **rutin**, quercetin, and quercetin pentaacetate  
in RAW 264.7 macrophages.

AU Chen, Yen-Chou (1); Shen, Shing-Chuan; Lee, Woan-Ruoh; Hou, Wen-Chi;  
Yang,  
Ling-Ling; Lee, Tony J. F.  
CS (1) Graduate Institute of Pharmacognosy Science, Taipei Medical College,  
250 Wu-Hsing Street, Taipei: yc3270@tmu.edu.tw Taiwan  
SO Journal of Cellular Biochemistry, (2001) Vol. 82, No. 4, pp. 537-548.  
print.  
ISSN: 0730-2312.  
DT Article  
LA English  
SL English

L8 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1988:416750 BIOSIS  
DN BA86:79362

TI USE OF MINOXIDIL TO DEMONSTRATE THAT PROSTACYCLIN IS NOT THE MEDIATOR OF  
BONE RESORPTION STIMULATED BY GROWTH FACTORS IN MOUSE CALVARIAE.  
AU TASHJIAN A H JR; BOSMA T J; LEVINE L  
CS LAB. TOXICOL., HARVARD SCH. PUBLIC HEALTH, 665 HUNTINGTON AVE., BOSTON,  
MASS. 02115.  
SO ENDOCRINOLOGY, (1988) 123 (2), 969-974.  
CODEN: ENDOAO. ISSN: 0013-7227.

FS BA; OLD  
LA English

L8 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1985:428170 BIOSIS  
DN BA80:98162  
TI INTERFERENCE OF SOME FLAVONOIDS AND NON-STEROIDAL ANTI-INFLAMMATORY DRUGS  
WITH OXIDATIVE METABOLISM OF ARACHIDONIC-ACID BY HUMAN PLATELETS AND  
NEUTROPHILS.  
AU CORVAZIER E; MACLOUF J  
CS U150 INSERM, LA 334 CNRS, HOPITAL LARIBOISIERE, 6 RUE GUY PATIN, 75475  
PARIS, CEDEX 10 FRANCE.  
SO BIOCHIM BIOPHYS ACTA, (1985) 835 (2), 315-321.  
CODEN: BBACAQ. ISSN: 0006-3002.  
FS BA; OLD  
LA English

L8 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:22700 CAPLUS  
TI Method for generating, screening, and dereplicating natural product  
libraries for the discovery of therapeutic agents  
IN Jia, Qi; Hong, Mei-Feng  
PA Unigen Pharmaceuticals, Inc., USA  
SO PCT Int. Appl., 111 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003002134	A1	20030109	WO 2002-US20602	20020627
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2001-301523P	P	20010627		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:495905 CAPLUS  
TI In vitro and in vivo inhibitory activities of **rutin**, wogonin,  
and quercetin on lipopolysaccharide-induced nitric oxide and  
prostaglandin  
E2 production  
AU Shen, Shing-Chuan; Lee, Woan-Ruoh; Lin, Hui-Yi; Huang, Ho-Chun; Ko,  
Ching-Huai; Yang, Ling-Ling; Chen, Yen-Chou  
CS Department of Dermatology, Taipei Medical University, School of Medicine,  
Taipei, Taiwan  
SO European Journal of Pharmacology (2002), 446(1-3), 187-194  
CODEN: EJPHAZ; ISSN: 0014-2999  
PB Elsevier Science B.V.  
DT Journal  
LA English

RE.CNT 42        THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8    ANSWER 11 OF 27    CAPLUS    COPYRIGHT 2003 ACS  
AN    2001:596841    CAPLUS  
DN    135:366462  
TI    **Inhibition** of nitric oxide synthase inhibitors and  
lipopolysaccharide induced inducible NOS and **cyclooxygenase-2**  
gene expressions by **rutin**, quercetin, and quercetin pentaacetate  
in RAW 264.7 macrophages  
AU    Chen, Yen-Chou; Shen, Shing-Chuan; Lee, Woan-Ruoh; Hou, Wen-Chi; Yang,  
Ling-Ling; Lee, Tony J. F.  
CS    Graduate Institute of Pharmacognosy Science, Taipei Medical University,  
Taipei, Taiwan  
SO    Journal of Cellular Biochemistry (2001), 82(4), 537-548  
CODEN: JCEBD5; ISSN: 0730-2312  
PB    Wiley-Liss, Inc.  
DT    Journal  
LA    English

RE.CNT 41        THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8    ANSWER 12 OF 27    CAPLUS    COPYRIGHT 2003 ACS  
AN    2001:334148    CAPLUS  
DN    135:190040  
TI    Suppression of inducible **cyclooxygenase** and nitric oxide  
synthase through activation of peroxisome proliferator-activated  
receptor-.gamma. by flavonoids in mouse macrophages  
AU    Liang, Y.-C.; Tsai, S.-H.; Tsai, D.-C.; Lin-Shiau, S.-Y.; Lin, J.-K.  
CS    Institute of Biochemistry, College of Medicine, No. 1, Section 1, Jen-Ai  
Road, National Taiwan University, Taipei, Taiwan  
SO    FEBS Letters (2001), 496(1), 12-18  
CODEN: FEBLAL; ISSN: 0014-5793  
PB    Elsevier Science B.V.  
DT    Journal  
LA    English

RE.CNT 42        THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8    ANSWER 13 OF 27    CAPLUS    COPYRIGHT 2003 ACS  
AN    2001:146488    CAPLUS  
DN    134:183458  
TI    Method for inhibiting **cyclooxygenase** and inflammation using  
cherry bioflavonoids  
IN    Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden  
M.;  
Gray, James I.  
PA    Board of Trustees Operating Michigan State University, USA  
SO    U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.  
CODEN: USXXAM  
DT    Patent  
LA    English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194469	B1	20010227	US 1999-337313	19990621
	US 6423365	B1	20020723	US 1999-317310	19990524
	WO 2000033824	A2	20000615	WO 1999-US29261	19991210
	WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,

DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,  
 IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,  
 MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,  
 TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,  
 KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 EP 1137429 A2 20011004 EP 1999-966092 19991210  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 JP 2002531493 T2 20020924 JP 2000-586317 19991210  
 US 2001020009 A1 20010906 US 2000-749856 20001228  
 PRAI US 1998-111945P P 19981211  
 US 1999-120178P P 19990216  
 US 1999-317310 A2 19990524  
 US 1999-337313 A2 19990621  
 WO 1999-US29261 W 19991210  
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 2000:407652 CAPLUS  
 DN 133:261100  
 TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and  
 their structure activity relationships  
 AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt,  
 D. L.  
 CS Bioactive Natural Products Laboratory, Department of Horticulture and  
 National Food Safety and Toxicology Center, Michigan State University,  
 Michigan, MI, USA  
 SO Phytomedicine (2000), 7(1), 15-19  
 CODEN: PYTOEY; ISSN: 0944-7113  
 PB Urban & Fischer Verlag  
 DT Journal  
 LA English  
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1998:423593 CAPLUS  
 DN 129:121895  
 TI Nutritional benefits of flavonoids  
 AU Frankel, Edwin N.  
 CS Department of Food Science and Technology, University of California,  
 Davis, CA, 95616, USA  
 SO Food Factors for Cancer Prevention, [International Conference on Food  
 Factors: Chemistry and Cancer Prevention], Hamamatsu, Japan, Dec., 1995  
 (1997), Meeting Date 1995, 613-616. Editor(s): Ohigashi, Hajime.  
 Publisher: Springer, Tokyo, Japan.  
 CODEN: 66HYAL  
 DT Conference; General Review  
 LA English

L8 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:499320 CAPLUS  
 DN 121:99320  
 TI **Inhibition** of histamine secretion from mast cells by  
 lipoxxygenase- and **cyclooxygenase** inhibitors  
 AU Grupe, R.; Ziska, T.

CS Biopharm Co. Ltd., Berlin, D-10315, Germany  
 SO Agents and Actions (1994), 41(Spec. Conf. Issue), C34-C36  
 CODEN: AGACBH; ISSN: 0065-4299  
 DT Journal  
 LA English

L8 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1992:379 CAPLUS  
 DN 116:379  
 TI **Inhibition** of mammalian 5-lipoxygenase and cyclo-oxygenase by  
 flavonoids and phenolic dietary additives. Relationship to antioxidant  
 activity and to iron ion-reducing ability  
 AU Laughton, Miranda J.; Evans, Patricia J.; Moroney, Michele A.; Hoult, J.  
 R. S.; Halliwell, Barry  
 CS Dep. Biochem., King's Coll. London, London, WC2R 2LS, UK  
 SO Biochemical Pharmacology (1991), 42(9), 1673-81  
 CODEN: BCPA6; ISSN: 0006-2952  
 DT Journal  
 LA English

L8 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1991:505958 CAPLUS  
 DN 115:105958  
 TI Effects of flavonoids of ginseng leaves on erythrocyte membranes against  
 damage by singlet oxygen  
 AU Park, Soo Nam; Choi, Sang Won; Boo, Yong Chool; Kim, Chang Kew; Lee, Tae  
 Young  
 CS Pac. Res. Dev. Cent., Seoul, 156-010, S. Korea  
 SO Koryo Insam Hakhoechi (1990), 14(2), 191-9  
 CODEN: KINHEK; ISSN: 1016-2615  
 DT Journal  
 LA English

L8 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1991:178060 CAPLUS  
 DN 114:178060  
 TI Influence of **cyclooxygenase-** (COX-) and lipoxygenase- (LOX-)  
**inhibition** on the degranulation of activated peritoneal rat mast  
 cells (pRMC) in vitro  
 AU Grupe, R.  
 CS Pharmakol. Forschungsges., Biopharm G.m.b.H., Berlin-Friedrichsfelde,  
 D-1136, Germany  
 SO Agents and Actions (1991), 32(1-2), 79-81  
 CODEN: AGACBH; ISSN: 0065-4299  
 DT Journal  
 LA English

L8 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1990:470703 CAPLUS  
 DN 113:70703  
 TI **Inhibition** of sheep platelet arachidonate metabolism by  
 flavonoids from Spanish and Indian medicinal herbs  
 AU Ferrandiz, M. L.; Ramachandran Nair, A. G.; Alcaraz, M. J.  
 CS Dep. Farmacol. Farmacotec., Fac. Farm., Valencia, 46010, Spain  
 SO Pharmazie (1990), 45(3), 206-8  
 CODEN: PHARAT; ISSN: 0031-7144  
 DT Journal  
 LA English

L8 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2003 ACS



AN 1989:433123 CAPLUS  
 DN 111:33123  
 TI Screening of the influence of flavonoids on lipoxygenase and **cyclooxygenase** activity, as well as on nonenzymic lipid oxidation  
 AU Robak, Jadwiga; Shridi, Farouk; Wolbis, Maria; Krolikowska, Maria  
 CS Dep. Pharmacol., Copernicus Acad. Med., Krakow, 31-531, Pol.  
 SO Polish Journal of Pharmacology and Pharmacy (1988), 40(5), 451-8  
 CODEN: PJPPAA; ISSN: 0301-0244  
 DT Journal  
 LA English

L8 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1989:18112 CAPLUS  
 DN 110:18112  
 TI Selectivity of neutrophil 5-lipoxygenase and **cyclooxygenase inhibition** by an anti-inflammatory flavonoid glycoside and related aglycone flavonoids  
 AU Moroney, M. A.; Alcaraz, M. J.; Forder, R. A.; Carey, F.; Hoult, J. R. S.  
 CS Dep. Pharmacol., King's Coll., Strand/London, WC2R 2LS, UK  
 SO Journal of Pharmacy and Pharmacology (1988), 40(11), 787-92  
 CODEN: JPPMAB; ISSN: 0022-3573  
 DT Journal  
 LA English

L8 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1988:486900 CAPLUS  
 DN 109:86900  
 TI Use of minoxidil to demonstrate that prostacyclin is not the mediator of bone resorption stimulated by growth factors in mouse calvariae  
 AU Tashjian, Armen H., Jr.; Bosma, Thomas J.; Levine, Lawrence  
 CS Lab. Toxicol., Harvard Sch. Public Health, Boston, MA, 02115, USA  
 SO Endocrinology (1988), 123(2), 969-74  
 CODEN: ENDOAO; ISSN: 0013-7227  
 DT Journal  
 LA English

L8 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1986:508161 CAPLUS  
 DN 105:108161  
 TI Flavonoids - lipoxygenases - platelet aggregation  
 AU Gryglewski, R. J.; Robak, J.; Swies, J.  
 CS Dep. Pharmacol., N. Copernicus Acad. Med., Krakow, 31-531, Pol.  
 SO NATO ASI Series, Series A: Life Sciences (1985), 95(Drugs Affecting Leukotriens Other Eicosanoid Pathways), 149-66  
 CODEN: NALSDJ; ISSN: 0258-1213  
 DT Journal  
 LA English

L8 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1985:464389 CAPLUS  
 DN 103:64389  
 TI Interference of some flavonoids and nonsteroidal anti-inflammatory drugs with oxidative metabolism of arachidonic acid by human platelets and neutrophils  
 AU Corvazier, Elisabeth; Maclouf, Jacques  
 CS CNRS, Hop. Lariboisiere, Paris, 75475, Fr.  
 SO Biochimica et Biophysica Acta (1985), 835(2), 315-21  
 CODEN: BBACAQ; ISSN: 0006-3002  
 DT Journal  
 LA English

L8 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1985:416593 CAPLUS  
 DN 103:16593  
 TI Antiaggregatory effects of flavonoids in vivo and their influence on  
 lipoxxygenase and **cyclooxygenase** in vitro  
 AU Swies, Jozef; Robak, Jadwiga; Dabrowski, Lech; Duniec, Zofia; Michalska,  
 Zofia; Gryglewski, Ryszard J.  
 CS Inst. Pharmacol., N. Copernicus Acad. Med., Krakow, 31-531, Pol.  
 SO Polish Journal of Pharmacology and Pharmacy (1984), 36(5), 455-63  
 CODEN: PJPPAA; ISSN: 0301-0244  
 DT Journal  
 LA English

L8 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1983:189 CAPLUS  
 DN 98:189  
 TI Effect of flavonoids on arachidonic acid metabolism  
 AU Wurm, G.; Baumann, J.; Geres, U.  
 CS Inst. Pharm., Freien Univ. Berlin, Berlin, 1000/33, Fed. Rep. Ger.  
 SO Deutsche Apotheker Zeitung (1982), 122(41), 2062-8  
 CODEN: DAZE2; ISSN: 0011-9857  
 DT Journal  
 LA German

=> s 17 and apiosylglucoside?  
 L9 0 L7 AND APIOSYLGLUCOSIDE?

=> s 17 and apiin?  
 L10 0 L7 AND APIIN?

=> s 17 and genistein?  
 L11 94 L7 AND GENISTEIN?

=> s 17 and genistin?  
 L12 2 L7 AND GENISTIN?

=> d 112 1-2

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:146488 CAPLUS  
 DN 134:183458  
 TI Method for inhibiting **cyclooxygenase** and inflammation using  
 cherry bioflavonoids  
 IN Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden  
 M.;  
 Gray, James I.  
 PA Board of Trustees Operating Michigan State University, USA  
 SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194469	B1	20010227	US 1999-337313	19990621
	US 6423365	B1	20020723	US 1999-317310	19990524
	WO 2000033824	A2	20000615	WO 1999-US29261	19991210
	WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,  
DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,  
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,  
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,  
TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,  
KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
EP 1137429 A2 20011004 EP 1999-966092 19991210  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
JP 2002531493 T2 20020924 JP 2000-586317 19991210  
US 2001020009 A1 20010906 US 2000-749856 20001228  
PRAI US 1998-111945P P 19981211  
US 1999-120178P P 19990216  
US 1999-317310 A2 19990524  
US 1999-337313 A2 19990621  
WO 1999-US29261 W 19991210  
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:407652 CAPLUS  
DN 133:261100  
TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and  
their structure activity relationships  
AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt,  
D. L.  
CS Bioactive Natural Products Laboratory, Department of Horticulture and  
National Food Safety and Toxicology Center, Michigan State University,  
Michigan, MI, USA  
SO Phytomedicine (2000), 7(1), 15-19  
CODEN: PYTOEY; ISSN: 0944-7113  
PB Urban & Fischer Verlag  
DT Journal  
LA English  
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l11 1-94

L11 ANSWER 1 OF 94 MEDLINE  
AN 2002262518 MEDLINE  
DN 21965866 PubMed ID: 11970914  
TI Estrogen acutely activates prostacyclin synthesis in ovine fetal  
pulmonary  
artery endothelium.  
AU Sherman Todd S; Chambliss Ken L; Gibson Linda L; Pace Margaret C;  
Mendelsohn Michael E; Pfister Sandra L; Shaul Philip W  
CS Department of Pediatrics, University of Texas Southwestern Medical Center  
at Dallas, Dallas, Texas 75390-9063, USA.  
NC HD30276 (NICHD)  
HL53546 (NHLBI)  
HL63494 (NHLBI)  
SO AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY, (2002 May) 26  
(5) 610-6.  
Journal code: 8917225. ISSN: 1044-1549.  
CY United States

DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200205  
ED Entered STN: 20020511  
Last Updated on STN: 20020515  
Entered Medline: 20020514

L11 ANSWER 2 OF 94 MEDLINE  
AN 2001210628 MEDLINE  
DN 21196037 PubMed ID: 11298294  
TI Leishmania donovani-induced macrophages **cyclooxygenase-2** and  
prostaglandin E2 synthesis.  
AU Matte C; Maion G; Mourad W; Olivier M  
CS Centre de Recherche en Infectiologie, Universite Laval, Ste-Foy, Quebec,  
Canada. Centre de Rhumatologie et Immunologie du CHUL, Universite Laval,  
Ste-Foy, Quebec, Canada.  
SO PARASITE IMMUNOLOGY, (2001 Apr) 23 (4) 177-84.  
Journal code: 7910948. ISSN: 0141-9838.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200105  
ED Entered STN: 20010517  
Last Updated on STN: 20010517  
Entered Medline: 20010510

L11 ANSWER 3 OF 94 MEDLINE  
AN 2001193262 MEDLINE  
DN 21108067 PubMed ID: 11164947  
TI The "in vivo" and "ex vivo" roles of cylcooxygenase-2, nuclear  
factor-kappaB and protein kinases pathways in the up-regulation of B1  
receptor-mediated contraction of the rabbit aorta.  
AU Medeiros R; Cabrini D A; Calixto J B  
CS Department of Pharmacology, Centre of Biological Sciences, Federal  
University of Santa Catarina, Rua Ferreira Lima 82, 88015-420  
Florianopolis, SC, Brazil.  
SO REGULATORY PEPTIDES, (2001 Mar 2) 97 (2-3) 121-30.  
Journal code: 8100479. ISSN: 0167-0115.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200104  
ED Entered STN: 20010410  
Last Updated on STN: 20010410  
Entered Medline: 20010405

L11 ANSWER 4 OF 94 MEDLINE  
AN 2000247095 MEDLINE  
DN 20247095 PubMed ID: 10783318  
TI Suppression of **cyclooxygenase-2** promoter-dependent  
transcriptional activity in colon cancer cells by chemopreventive agents  
with a resorcin-type structure.  
AU Mutoh M; Takahashi M; Fukuda K; Matsushima-Hibiya Y; Mutoh H; Sugimura T;  
Wakabayashi K  
CS Cancer Prevention Division, National Cancer Center Research Institute,  
1-1  
Tsukiji 5-chome, Chuo-ku, Tokyo 104-0045, Japan.

SO CARCINOGENESIS, (2000 May) 21 (5) 959-63.

Journal code: 8008055. ISSN: 0143-3334.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200006

ED Entered STN: 20000622

Last Updated on STN: 20000622

Entered Medline: 20000615

L11 ANSWER 5 OF 94 MEDLINE

AN 2000135409 MEDLINE

DN 20135409 PubMed ID: 10672854

TI **Genistein** potentiates the relaxation induced by beta1- and beta2-adrenoceptor activation in rat aortic rings.

AU Satake N; Imanishi M; Keto Y; Yamada H; Ishikawa M; Shibata S

CS Department of Pharmacology, University of Hawaii, School of Medicine, Honolulu 96822, USA.

SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (2000 Feb) 35 (2) 227-33.

Journal code: 7902492. ISSN: 0160-2446.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200003

ED Entered STN: 20000327

Last Updated on STN: 20000327

Entered Medline: 20000313

L11 ANSWER 6 OF 94 MEDLINE

AN 2000006366 MEDLINE

DN 20006366 PubMed ID: 10534581

TI **Inhibition** of cGMP accumulation in mesangial cells by bradykinin and tyrosine kinase inhibitors.

AU Alric C; Pecher C; Tack I; Schanstra J P; Bascands J L; Girolami J P

CS Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, CHU Rangueil, 31403 Toulouse Cedex, France.

SO INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (1999 Nov) 4 (5) 557-64.

Journal code: 9810955. ISSN: 1107-3756.

CY Greece

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199912

ED Entered STN: 20000113

Last Updated on STN: 20000113

Entered Medline: 19991215

L11 ANSWER 7 OF 94 MEDLINE

AN 1999435951 MEDLINE

DN 99435951 PubMed ID: 10506109

TI Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages.

AU Liang Y C; Huang Y T; Tsai S H; Lin-Shiau S Y; Chen C F; Lin J K

CS Institute of Biochemistry, College of Medicine, National Taiwan University, No. 1, Section 1, Taipei, Taiwan.

SO CARCINOGENESIS, (1999 Oct) 20 (10) 1945-52.

Journal code: 8008055. ISSN: 0143-3334.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199911  
 ED Entered STN: 20000111  
 Last Updated on STN: 20000111  
 Entered Medline: 19991104

L11 ANSWER 8 OF 94 MEDLINE  
 AN 1999360881 MEDLINE  
 DN 99360881 PubMed ID: 10433499  
 TI Induction of prostanoid, nitric oxide, and cytokine formation in rat bone marrow derived macrophages by activin A.  
 AU Nusing R M; Barsig J  
 CS Department of Pediatrics, Philipps University, Marburg, Germany..  
 nusing@mail.uni-marburg.de  
 SO BRITISH JOURNAL OF PHARMACOLOGY, (1999 Jun) 127 (4) 919-26.  
 Journal code: 7502536. ISSN: 0007-1188.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199908  
 ED Entered STN: 19990910  
 Last Updated on STN: 19990910  
 Entered Medline: 19990826

L11 ANSWER 9 OF 94 MEDLINE  
 AN 1999250279 MEDLINE  
 DN 99250279 PubMed ID: 10233682  
 TI Arachidonic acid, but not its metabolites, is essential for FcγR-stimulated intracellular killing of Staphylococcus aureus by human monocytes.  
 AU Zheng L; Zomerdijs T P; Van Den Barselaar M T; Geertsma M F; Van Furth R; Nibbeling P H  
 CS Department of Infectious Diseases, C5-P, Leiden University Medical Center,  
 PO Box 9600, 2300 RC Leiden, The Netherlands.  
 SO IMMUNOLOGY, (1999 Jan) 96 (1) 90-7.  
 Journal code: 0374672. ISSN: 0019-2805.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199907  
 ED Entered STN: 19990730  
 Last Updated on STN: 19990730  
 Entered Medline: 19990722

L11 ANSWER 10 OF 94 MEDLINE  
 AN 1999231888 MEDLINE  
 DN 99231888 PubMed ID: 10217536  
 TI Induction of cyclo-oxygenase-2 expression by methyl arachidonyl fluorophosphonate in murine J774 macrophages: roles of protein kinase C, ERKs and p38 MAPK.  
 AU Lin W W; Chen B C  
 CS Department of Pharmacology, College of Medicine, National Taiwan University, Taipei.. wwlin@ha.mc.ntu.edu.tw  
 SO BRITISH JOURNAL OF PHARMACOLOGY, (1999 Mar) 126 (6) 1419-25.  
 Journal code: 7502536. ISSN: 0007-1188.

CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199906  
ED Entered STN: 19990712  
Last Updated on STN: 20010716  
Entered Medline: 19990622

L11 ANSWER 11 OF 94 MEDLINE  
AN 1999062597 MEDLINE  
DN 99062597 PubMed ID: 9846167  
TI Type I collagen influence on gene expression in UMR106-06 osteoblast-like cells is inhibited by **genistein**.  
AU Celic S; Katayama Y; Chilco P J; Martin T J; Findlay D M  
CS St Vincent's Institute of Medical Research, Fitzroy, Victoria, Australia.  
SO JOURNAL OF ENDOCRINOLOGY, (1998 Sep) 158 (3) 377-88.  
Journal code: 0375363. ISSN: 0022-0795.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199812  
ED Entered STN: 19990115  
Last Updated on STN: 19990115  
Entered Medline: 19981216

L11 ANSWER 12 OF 94 MEDLINE  
AN 1999057889 MEDLINE  
DN 99057889 PubMed ID: 9837905  
TI Induction of mitogen-activated protein kinase phosphatase-1 by arachidonic acid in vascular smooth muscle cells.  
AU Metzler B; Hu Y; Sturm G; Wick G; Xu Q  
CS Institute for Biomedical Aging Research, Austrian Academy of Sciences, A-6020 Innsbruck, Austria.  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Dec 11) 273 (50) 33320-6.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199901  
ED Entered STN: 19990128  
Last Updated on STN: 19990128  
Entered Medline: 19990114

L11 ANSWER 13 OF 94 MEDLINE  
AN 1999036013 MEDLINE  
DN 99036013 PubMed ID: 9820127  
TI Dual effects of nimesulide, a COX-2 inhibitor, in human platelets.  
AU Saeed S A; Afzal M N; Shah B H  
CS Department of Physiology and Pharmacology, The Aga Khan University Medical College, Karachi, Pakistan.. arshad.saeed@aku.edu  
SO LIFE SCIENCES, (1998) 63 (20) 1835-41.  
Journal code: 0375521. ISSN: 0024-3205.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 199812  
ED Entered STN: 19990115  
Last Updated on STN: 20000303  
Entered Medline: 19981201

L11 ANSWER 14 OF 94 MEDLINE  
AN 1999011407 MEDLINE  
DN 99011407 PubMed ID: 9792802  
TI Evidence for a tyrosine kinase-dependent activation of the adenylyl  
Cyclase/PKA cascade downstream from the G-protein-linked endothelin ETA  
receptor in vascular smooth muscle.  
AU El-Mowafy A M; White R E  
CS Department of Physiology and Biophysics, Wright State University School  
of  
Medicine, Dayton, Ohio, 45435, USA.  
NC HL54844 (NHLBI)  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1998 Oct 20) 251  
(2)

494-500.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199811  
ED Entered STN: 19990106  
Last Updated on STN: 20000303  
Entered Medline: 19981123

L11 ANSWER 15 OF 94 MEDLINE  
AN 1998236998 MEDLINE  
DN 98236998 PubMed ID: 9576062  
TI Tumour necrosis factor-alpha-dependent regulation of prostaglandin  
endoperoxide synthase-2.  
AU Mahboubi K; Young W; Ferreri N R  
CS Department of Pharmacology, New York Medical College, Valhalla, USA.  
SO CYTOKINE, (1998 Mar) 10 (3) 175-84.  
Journal code: 9005353. ISSN: 1043-4666.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199806  
ED Entered STN: 19980713  
Last Updated on STN: 19980713  
Entered Medline: 19980626

L11 ANSWER 16 OF 94 MEDLINE  
AN 1998205036 MEDLINE  
DN 98205036 PubMed ID: 9536028  
TI Parallel contractile signal transduction pathways activated by receptors  
for thrombin and epidermal growth factor-urogastrone in guinea pig  
gastric  
smooth muscle: blockade by inhibitors of mitogen-activated protein  
kinase-kinase and phosphatidyl inositol 3'-kinase.  
AU Zheng X L; Renaux B; Hollenberg M D  
CS Endocrine Research Group, Department of Pharmacology & Therapeutics, The  
University of Calgary Faculty of Medicine, Calgary, Alberta, Canada T2N



4N1.

SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1998 Apr) 285 (1)  
325-34.  
Journal code: 0376362. ISSN: 0022-3565.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199805  
ED Entered STN: 19980520  
Last Updated on STN: 20000303  
Entered Medline: 19980512

L11 ANSWER 17 OF 94 MEDLINE  
AN 1998161857 MEDLINE  
DN 98161857 PubMed ID: 9495802  
TI On the induction of **cyclooxygenase-2**, inducible nitric oxide  
synthase and soluble phospholipase A2 in rat mesangial cells by a  
nonsteroidal anti-inflammatory drug: the role of cyclic AMP.  
AU Klein T; Ullrich V; Pfeilschifter J; Nusing R  
CS Department of Pediatrics, Philipps University, D-35033 Marburg, Germany..  
kleinv@byk.de  
SO MOLECULAR PHARMACOLOGY, (1998 Mar) 53 (3) 385-91.  
Journal code: 0035623. ISSN: 0026-895X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199803  
ED Entered STN: 19980410  
Last Updated on STN: 19990129  
Entered Medline: 19980327

L11 ANSWER 18 OF 94 MEDLINE  
AN 97446194 MEDLINE  
DN 97446194 PubMed ID: 9299378  
TI Bradykinin B2-receptor-mediated stimulation of exocytotic noradrenaline  
release from cardiac sympathetic neurons.  
AU Kurz T; Tolg R; Richardt G  
CS Medizinische Klinik II, Medical University, Lubeck, Germany.  
SO JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, (1997 Sep) 29 (9) 2561-9.  
Journal code: 0262322. ISSN: 0022-2828.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199710  
ED Entered STN: 19971105  
Last Updated on STN: 19971105  
Entered Medline: 19971023

L11 ANSWER 19 OF 94 MEDLINE  
AN 97433109 MEDLINE  
DN 97433109 PubMed ID: 9288778  
TI Enhancement of experimental colon cancer by **genistein**.  
AU Rao C V; Wang C X; Simi B; Lubet R; Kelloff G; Steele V; Reddy B S  
CS Division of Nutritional Carcinogenesis, American Health Foundation,  
Valhalla, New York 10595, USA.  
NC CA17613 (NCI)  
NO1CN-25450-01 (NCI)

SO CANCER RESEARCH, (1997 Sep 1) 57 (17) 3717-22.  
 Journal code: 2984705R. ISSN: 0008-5472.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199709  
 ED Entered STN: 19971008  
 Last Updated on STN: 20020420  
 Entered Medline: 19970924

L11 ANSWER 20 OF 94 MEDLINE  
 AN 97413528 MEDLINE  
 DN 97413528 PubMed ID: 9269943  
 TI Differential signaling pathways in platelet-activating factor-induced proliferation and interleukin-6 production by rat vascular smooth muscle cells.  
 AU Gaumond F; Fortin D; Stankova J; Rola-Pleszczynski M  
 CS Department of Pediatrics, Faculty of Medicine, Universite de Sherbrooke, Sherbrooke QC, Canada.  
 SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (1997 Aug) 30 (2) 169-75.  
 Journal code: 7902492. ISSN: 0160-2446.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199710  
 ED Entered STN: 19971013  
 Last Updated on STN: 20021218  
 Entered Medline: 19971001

L11 ANSWER 21 OF 94 MEDLINE  
 AN 97366761 MEDLINE  
 DN 97366761 PubMed ID: 9223591  
 TI Contractile action of ethanol in guinea pig gastric smooth muscle: **inhibition** by tyrosine kinase inhibitors and comparison with the contractile action of epidermal growth factor-urogastrone.  
 AU Zheng X L; Mokashi S; Hollenberg M D  
 CS Department of Pharmacology and Therapeutics, The University of Calgary, Faculty of Medicine, Alberta, Canada.  
 SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1997 Jul) 282 (1) 485-95.  
 Journal code: 0376362. ISSN: 0022-3565.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199708  
 ED Entered STN: 19970813  
 Last Updated on STN: 20000303  
 Entered Medline: 19970807

L11 ANSWER 22 OF 94 MEDLINE  
 AN 97133899 MEDLINE  
 DN 97133899 PubMed ID: 8979294  
 TI Protein kinase Cs and tyrosine kinases in permissive action of prostacyclin on cerebrovascular regulation in newborn pigs.  
 AU Rama G P; Parfenova H; Leffler C W  
 CS Department of Physiology/Biophysics, University of Tennessee, Memphis 38163, USA.

NC HL34059 (NHLBI)  
 HL42851 (NHLBI)  
 SO PEDIATRIC RESEARCH, (1997 Jan) 41 (1) 83-9.  
 Journal code: 0100714. ISSN: 0031-3998.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199703  
 ED Entered STN: 19970327  
 Last Updated on STN: 19980206  
 Entered Medline: 19970318

L11 ANSWER 23 OF 94 MEDLINE  
 AN 97110549 MEDLINE  
 DN 97110549 PubMed ID: 8952700  
 TI 24,25-(OH)2D3 regulates protein kinase C through two distinct  
 phospholipid-dependent mechanisms.  
 AU Helm S; Sylvia V L; Harmon T; Dean D D; Boyan B D; Schwartz Z  
 CS Department of Orthopaedics, University of Texas Health Science Center at  
 San Antonio 78284, USA.  
 NC DE-05937 (NIDCR)  
 DE-08603 (NIDCR)  
 SO JOURNAL OF CELLULAR PHYSIOLOGY, (1996 Dec) 169 (3) 509-21.  
 Journal code: 0050222. ISSN: 0021-9541.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199701  
 ED Entered STN: 19970128  
 Last Updated on STN: 20000303  
 Entered Medline: 19970107

L11 ANSWER 24 OF 94 MEDLINE  
 AN 96255386 MEDLINE  
 DN 96255386 PubMed ID: 8711138  
 TI **Genistein** suppresses EGF-induced prostaglandin biosynthesis by a  
 mechanism independent of EGF receptor tyrosine kinase **inhibition**  
 AU Kniss D A; Zimmerman P D; Su H C; Fertel R H  
 CS Department of Obstetrics & Gynecology, Ohio State University, College of  
 Medicine, Columbus 43210-1228, USA.  
 NC HD28360 (NICHD)  
 SO PROSTAGLANDINS, (1996 Feb) 51 (2) 87-105.  
 Journal code: 0320271. ISSN: 0090-6980.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199609  
 ED Entered STN: 19960919  
 Last Updated on STN: 20000303  
 Entered Medline: 19960911

L11 ANSWER 25 OF 94 MEDLINE  
 AN 95364273 MEDLINE  
 DN 95364273 PubMed ID: 7637265  
 TI IL-1 beta regulates rat mesangial **cyclooxygenase** II gene  
 expression by tyrosine phosphorylation.

AU Rzymkiewicz D M; DuMaine J; Morrison A R  
 CS Department of Medicine, Washington University School of Medicine, St.  
 Louis, Missouri, USA.  
 NC DK PO-38111 (NIDDK)  
 HL 20787 (NHLBI)  
 SO KIDNEY INTERNATIONAL, (1995 May) 47 (5) 1354-63.  
 Journal code: 0323470. ISSN: 0085-2538.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199509  
 ED Entered STN: 19950921  
 Last Updated on STN: 19980206  
 Entered Medline: 19950912

L11 ANSWER 26 OF 94 MEDLINE  
 AN 94228514 MEDLINE  
 DN 94228514 PubMed ID: 7513607  
 TI Effects of signalling transduction modulators on the transformed  
 phenotypes in v-H-ras-transformed NIH 3T3 cells.  
 AU Kuo M L; Kang J J; Yang N C  
 CS Institute of Toxicology, College of Medicine, National Taiwan University,  
 Taipei, Republic of China.  
 SO CANCER LETTERS, (1993 Nov 1) 74 (3) 197-202.  
 Journal code: 7600053. ISSN: 0304-3835.  
 CY Ireland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199406  
 ED Entered STN: 19940620  
 Last Updated on STN: 19980206  
 Entered Medline: 19940609

L11 ANSWER 27 OF 94 MEDLINE  
 AN 94133128 MEDLINE  
 DN 94133128 PubMed ID: 8301564  
 TI Modulation of superoxide generation in in vivo lipopolysaccharide-primed  
 Kupffer cells by staurosporine, okadaic acid, mannoalide, arachidonic  
 acid,  
**genistein** and sodium orthovanadate.  
 AU Mayer A M; Spitzer J A  
 CS Department of Physiology, Louisiana State University Medical Center, New  
 Orleans.  
 NC GM 32654 (NIGMS)  
 SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1994 Jan) 268 (1)  
 238-47.  
 Journal code: 0376362. ISSN: 0022-3565.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199403  
 ED Entered STN: 19940318  
 Last Updated on STN: 19980206  
 Entered Medline: 19940310

L11 ANSWER 28 OF 94 MEDLINE  
 AN 93349365 MEDLINE

DN 93349365 PubMed ID: 8394081  
TI Effects of **genistein**, a tyrosine kinase inhibitor, on platelet functions. **Genistein** attenuates thrombin-induced Ca<sup>2+</sup> mobilization in human platelets by affecting polyphosphoinositide turnover.  
AU Ozaki Y; Yatomi Y; Jinnai Y; Kume S  
CS Department of Clinical and Laboratory Medicine, Yamanashi Medical College,  
Japan.  
SO BIOCHEMICAL PHARMACOLOGY, (1993 Aug 3) 46 (3) 395-403.  
Journal code: 0101032. ISSN: 0006-2952.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199309  
ED Entered STN: 19930924  
Last Updated on STN: 19980206  
Entered Medline: 19930909

L11 ANSWER 29 OF 94 MEDLINE  
AN 93259664 MEDLINE  
DN 93259664 PubMed ID: 8491500  
TI Epidermal growth factor is a potent inhibitor of renin secretion.  
AU Antonipillai I  
CS USC Medical Center, Division of Endocrinology, Los Angeles 90033.  
NC HL-44404 (NHLBI)  
SO HYPERTENSION, (1993 May) 21 (5) 654-9.  
Journal code: 7906255. ISSN: 0194-911X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199306  
ED Entered STN: 19930625  
Last Updated on STN: 20000303  
Entered Medline: 19930611

L11 ANSWER 30 OF 94 MEDLINE  
AN 93049678 MEDLINE  
DN 93049678 PubMed ID: 1425935  
TI Possible mechanism of immunosuppressive effect of scoparone (6,7-dimethoxycoumarin).  
AU Huang H C; Huang Y L; Chang J H; Chen C C; Lee Y T  
CS Department of Pharmacology, College of Medicine, National Taiwan University, Taipei.  
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1992 Jul 7) 217 (2-3) 143-8.  
Journal code: 1254354. ISSN: 0014-2999.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199212  
ED Entered STN: 19930122  
Last Updated on STN: 19980206  
Entered Medline: 19921204

L11 ANSWER 31 OF 94 MEDLINE  
AN 90219838 MEDLINE  
DN 90219838 PubMed ID: 2139153

TI Interaction of phytoestrogens and other environmental estrogens with  
 prostaglandin synthase in vitro.  
 AU Degen G H  
 CS Institute of Toxicology, University of Wurzburg, F.R.G.  
 SO JOURNAL OF STEROID BIOCHEMISTRY, (1990 Mar) 35 (3-4) 473-9.  
 Journal code: 0260125. ISSN: 0022-4731.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199005  
 ED Entered STN: 19900622  
 Last Updated on STN: 19900622  
 Entered Medline: 19900524

L11 ANSWER 32 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:407168 BIOSIS  
 DN PREV200200407168  
 TI Periadventitial fat releases a vascular relaxing factor.  
 AU Loehn, Matthias; Dubrovskaya, Galyna; Lauterbach, Birgit; Luft, Friedrich  
 C.; Gollasch, Maik; Sharma, Arya M. (1)  
 CS (1) Franz-Volhard Klinik, Wiltbergstrasse 50, 13125, Berlin:  
 gollasch@fvk-berlin.de, sharma@fvk-berlin.de Germany  
 SO FASEB Journal, (July, 2002) Vol. 16, No. 9, pp. 1057-1063.  
 http://www.fasebj.org/. print.  
 ISSN: 0892-6638.  
 DT Article  
 LA English

L11 ANSWER 33 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:317878 BIOSIS  
 DN PREV200200317878  
 TI Estrogen acutely activates prostacyclin synthesis in ovine fetal  
 pulmonary  
 artery endothelium.  
 AU Sherman, Todd S.; Chambliss, Ken L.; Gibson, Linda L.; Pace, Margaret C.;  
 Mendelsohn, Michael E.; Pfister, Sandra L.; Shaul, Philip W. (1)  
 CS (1) Department of Pediatrics, University of Texas Southwestern Medical  
 Center, 5323 Harry Hines Blvd., Dallas, TX, 75390-9063:  
 philip.shaul@utsouthwestern.edu USA  
 SO American Journal of Respiratory Cell and Molecular Biology, (May, 2002)  
 Vol. 26, No. 5, pp. 610-616. print.  
 ISSN: 1044-1549.  
 DT Article  
 LA English

L11 ANSWER 34 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2001:227008 BIOSIS  
 DN PREV200100227008  
 TI Leishmania donovani-induced macrophages **cyclooxygenase-2** and  
 prostaglandin E2 synthesis.  
 AU Matte, Claudine; Maion, Grazia; Mourad, Walid; Olivier, Martin (1)  
 CS (1) Centre en Recherche en Infectiologie, Centre Hospitalier  
 Universitaire  
 de Quebec, 2705 Boulevard Laurier, Pavillon CHUL, RC-709, Sainte-Foy, PQ,  
 G1V 4G2: martin.olivier@crchul.ulaval.ca Canada  
 SO Parasite Immunology (Oxford), (April, 2001) Vol. 23, No. 4, pp. 177-184.  
 print.  
 ISSN: 0141-9838.  
 DT Article

LA English  
SL English

L11 ANSWER 35 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:128330 BIOSIS  
DN PREV200100128330  
TI The 'in vivo' and 'ex vivo' roles of **cyclooxygenase-2**, nuclear factor-kappaB and protein kinases pathways in the up-regulation of B1 receptor-mediated contraction of the rabbit aorta.  
AU Medeiros, Rodrigo; Cabrini, Daniela A.; Calixto, Joao B. (1)  
CS (1) Department of Pharmacology, Centre of Biological Sciences, Federal University of Santa Catarina, Rua Ferreira Lima 82, 88015-420, Florianopolis, SC: calixto@farmaco.ufsc.br Brazil  
SO Regulatory Peptides, (2 March, 2001) Vol. 97, No. 2-3, pp. 121-130.  
print.  
ISSN: 0167-0115.  
DT Article  
LA English  
SL English

L11 ANSWER 36 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:26246 BIOSIS  
DN PREV200100026246  
TI Characterization of endothelial factors involved in the vasodilatory effect of simvastatin in aorta and small mesenteric artery of the rat.  
AU Alvarez de Sotomayor, Maria (1); Herrera, Maria Dolores; Marhuenda, Elisa;  
Andriantsitohaina, Ramaroson  
CS (1) Department of Pharmacology, Faculty of Pharmacy, University of Seville, C/ Profesor Garcia-Gonzalez s/n, 41012, Seville: aldesoto@fafar.us.es Spain  
SO British Journal of Pharmacology, (November, 2000) Vol. 131, No. 6, pp. 1179-1187. print.  
ISSN: 0007-1188.  
DT Article  
LA English  
SL English

L11 ANSWER 37 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2000:273150 BIOSIS  
DN PREV2000000273150  
TI Suppression of **cyclooxygenase-2** promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure.  
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 AU Matte, Claudine; Maion, Grazia; Mourad, Walid; Olivier, Martin  
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 AU Feletou, Michel; Staczek, Joanna; Duhault, Jacques  
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 CODEN: BJPCBM; ISSN: 0007-1188  
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FAN.CNT 4

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	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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 CODEN: BJPCBM; ISSN: 0007-1188  
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CS Department of Physiology and Pharmacology, The Aga Khan University, Karachi, 74800, Pak.  
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CODEN: PHMREP; ISSN: 1043-6618  
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AU Ohuchi, Kazuo; Kim, Yong Pil; Lim, Soon Sung; Lee, Sanghyun; Ryu, Nama; Shin, Kuk Hyun  
CS Department of Pathophysiological Biochemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Miyagi, 980-8578, Japan  
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TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships  
AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.  
CS Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA  
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DN 133:99077  
 TI Suppression of **cyclooxygenase-2** promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure  
 AU Mutoh, Michihiro; Takahashi, Mami; Fukuda, Kazunori; Matsushima-Hibiya, Yuko; Mutoh, Hiroshi; Sugimura, Takashi; Wakabayashi, Keiji  
 CS Cancer Prevention Division, National Cancer Center Research Institute, Tokyo, 104-0045, Japan  
 SO Carcinogenesis (2000), 21(5), 959-963  
 CODEN: CRNGDP; ISSN: 0143-3334  
 PB Oxford University Press  
 DT Journal  
 LA English  
 RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 73 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 2000:85684 CAPLUS  
 DN 132:216808  
 TI **Genistein** potentiates the relaxation induced by .beta.1- and .beta.2-adrenoceptor activation in rat aortic rings  
 AU Satake, Nobuhiro; Imanishi, Masami; Keto, Yoshihiro; Yamada, Hiroyuki; Ishikawa, Makoto; Shibata, Shoji  
 CS Department of Pharmacology, School of Medicine, University of Hawaii, Honolulu, HI, 96822, USA  
 SO Journal of Cardiovascular Pharmacology (2000), 35(2), 227-233  
 CODEN: JPCPDT; ISSN: 0160-2446  
 PB Lippincott Williams & Wilkins  
 DT Journal  
 LA English  
 RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 74 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:750655 CAPLUS  
 DN 132:103269  
 TI **Inhibition** of cGMP accumulation in mesangial cells by bradykinin and tyrosine kinase inhibitors  
 AU Alric, Celine; Pecher, Christiane; Tack, Ivan; Schanstra, Joost P.; Bascands, Jean-Loup; Girolami, Jean-Pierre  
 CS Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, CHU Rangueil, Toulouse, 31403, Fr.  
 SO International Journal of Molecular Medicine (1999), 4(5), 557-564  
 CODEN: IJMMFG; ISSN: 1107-3756  
 PB International Journal of Molecular Medicine  
 DT Journal  
 LA English  
 RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 75 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:675773 CAPLUS  
 DN 132:8722  
 TI Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages  
 AU Liang, Yu-Chih; Huang, Ying-Tang; Tsai, Shu-Huei; Lin-Shiau, Shoen-Yn; Chen, Chieh-Fu; Lin, Jen-Kun  
 CS Institute of Biochemistry, College of Medicine, No. 1, Section 1, National

Taiwan University, Taipei, Taiwan  
SO Carcinogenesis (1999), 20(10), 1945-1952  
CODEN: CRNGDP; ISSN: 0143-3334  
PB Oxford University Press  
DT Journal  
LA English  
RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 76 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:237600 CAPLUS  
DN 131:39410  
TI Induction of cyclo-oxygenase-2 expression by methyl arachidonyl  
fluorophosphonate in murine J774 macrophages: roles of protein kinase C,  
ERKs and p38 MAPK  
AU Lin, Wan-W.; Chen, Bing-C.  
CS Department of Pharmacology, College of Medicine, National Taiwan  
University, Taipei, Taiwan  
SO British Journal of Pharmacology (1999), 126(6), 1419-1425  
CODEN: BJPCBM; ISSN: 0007-1188  
PB Stockton Press  
DT Journal  
LA English  
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 77 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:293 CAPLUS  
DN 130:180371  
TI Induction of mitogen-activated protein kinase phosphatase-1 by  
arachidonic  
acid in vascular smooth muscle cells  
AU Metzler, Bernhard; Hu, Yanhua; Sturm, Gertraud; Wick, Georg; Xu, Qingbo  
CS Institute for Biomedical Aging Research, Austrian Academy of Sciences,  
Innsbruck, A-6020, Austria  
SO Journal of Biological Chemistry (1998), 273(50), 33320-33326  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English  
RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 78 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1998:699542 CAPLUS  
DN 130:47874  
TI Evidence for a tyrosine kinase-dependent activation of the adenylyl  
cyclase/PKA cascade downstream from the G-protein-linked endothelin ETA  
receptor in vascular smooth muscle  
AU El-Mowafy, Abdalla M.; White, Richard E.  
CS Department of Physiology and Biophysics, Wright State University School  
of  
Medicine, Dayton, OH, 45435, USA  
SO Biochemical and Biophysical Research Communications (1998), 251(2),  
494-500  
CODEN: BBRCA9; ISSN: 0006-291X  
PB Academic Press  
DT Journal  
LA English  
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L11 ANSWER 79 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1998:601720 CAPLUS  
 DN 129:298575  
 TI Type I collagen influence on gene expression in UMR 106-06  
 osteoblast-like  
 cells is inhibited by **genistein**  
 AU Celic, S.; Katayama, Y.; Chilco, P. J.; Martin, T. J.; Findlay, D. M.  
 CS St Vincent's Institute of Medical Research, Fitzroy, 3065, Australia  
 SO Journal of Endocrinology (1998), 158(3), 377-388  
 CODEN: JOENAK; ISSN: 0022-0795  
 PB Society for Endocrinology  
 DT Journal  
 LA English  
 RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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- L11 ANSWER 80 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1998:244939 CAPLUS  
 DN 129:995  
 TI Parallel contractile signal transduction pathways activated by receptors  
 for thrombin and epidermal growth factor-urogastrone in guinea pig  
 gastric  
 smooth muscle: blockade by inhibitors of mitogen-activated protein  
 kinase-kinase and phosphatidyl inositol 3'-kinase  
 AU Zheng, Xi-Long; Renaux, Bernard; Hollenberg, Morley D.  
 CS Endocrine Research Group, Department of Pharmacology & Therapeutics and  
 Department of Medicine, The University of Calgary Faculty of Medicine,  
 Calgary, AB, T2N 4N1, Can.  
 SO Journal of Pharmacology and Experimental Therapeutics (1998), 285(1),  
 325-334  
 CODEN: JPETAB; ISSN: 0022-3565  
 PB Williams & Wilkins  
 DT Journal  
 LA English  
 RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L11 ANSWER 81 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1998:174477 CAPLUS  
 DN 128:303781  
 TI On the induction of **cyclooxygenase-2**, inducible nitric oxide  
 synthase and soluble phospholipase A2 in rat mesangial cells by a  
 nonsteroidal anti-inflammatory drug: the role of cyclic AMP  
 AU Klein, Thomas; Ullrich, Volker; Pfeilschifter, Josef; Nusing, Rolf  
 CS Department of Pediatrics, Philipps University, Marburg, D-35033, Germany  
 SO Molecular Pharmacology (1998), 53(3), 385-391  
 CODEN: MOPMA3; ISSN: 0026-895X  
 PB Williams & Wilkins  
 DT Journal  
 LA English
- L11 ANSWER 82 OF 94 CAPLUS COPYRIGHT 2003 ACS  
 AN 1998:90150 CAPLUS  
 DN 128:179323  
 TI Differential signaling pathways in platelet-activating factor-induced  
 proliferation and interleukin-6 production by rat vascular smooth muscle  
 cells  
 AU Gaumond, Fanny; Fortin, Denis; Stankova, Jana; Rola-Pleszczynski, Marek

CS Immunology Div., Dep. Pediatrics, Fac. Med., Univ. Sherbrooke,  
Sherbrooke,  
QC, J1H 5N4, Can.

SO Journal of Cardiovascular Pharmacology (1997), 30(2), 169-175  
CODEN: JCPCDT; ISSN: 0160-2446

PB Lippincott-Raven Publishers

DT Journal

LA English

L11 ANSWER 83 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1997:634270 CAPLUS

DN 127:315093

TI Bradykinin B2-receptor-mediated stimulation of exocytotic noradrenaline  
release from cardiac sympathetic neurons

AU Kurz, Thomas; Tolg, Ralph; Richardt, Gert

CS Medl. Klin. II, Med. Univ., Lubeck, Germany

SO Journal of Molecular and Cellular Cardiology (1997), 29(9), 2561-2569  
CODEN: JMCDAJ; ISSN: 0022-2828

PB Academic

DT Journal

LA English

L11 ANSWER 84 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1997:593452 CAPLUS

DN 127:257231

TI Enhancement of experimental colon cancer by **genistein**

AU Rao, Chinthalapally V.; Wang, Chung-Xiou; Simi, Barbara; Lubet, Ronald;  
Kelloff, Gary; Steele, Vernon; Reddy, Bandaru S.

CS Divisions of Nutritional Carcinogenesis, American Health Foundation,  
Valhalla, NY, 10595, USA

SO Cancer Research (1997), 57(17), 3717-3722  
CODEN: CNREA8; ISSN: 0008-5472

PB American Association for Cancer Research

DT Journal

LA English

L11 ANSWER 85 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1997:458703 CAPLUS

DN 127:105328

TI Contractile action of ethanol in guinea pig gastric smooth muscle:  
**inhibition** by tyrosine kinase inhibitors and comparison with the  
contractile action of epidermal growth factor-urogastrone

AU Zheng, Xi-Long; Mokashi, Shalini; Hollenberg, Morley D.

CS Endocrine Research Group, Dep. of Pharmacology and Therapeutics and Dep.  
of Medicine, Faculty of Medicine, University of Calgary, Calgary, AB, T2N  
4N1, Can.

SO Journal of Pharmacology and Experimental Therapeutics (1997), 282(1),  
485-495

CODEN: JPETAB; ISSN: 0022-3565

PB Williams & Wilkins

DT Journal

LA English

L11 ANSWER 86 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1997:48277 CAPLUS

DN 126:99744

TI Protein kinase Cs and tyrosine kinases in permissive action of  
prostacyclin on cerebrovascular regulation in newborn pigs

AU Rama, Ganapathy P.; Parfenova, Helena; Leffler, Charles W.

CS Departments Physiology/Biophysics, University Tennessee, Memphis, TN,

38163, USA  
SO Pediatric Research (1997), 41(1), 83-89  
CODEN: PEREBL; ISSN: 0031-3998  
PB Williams & Wilkins  
DT Journal  
LA English

L11 ANSWER 87 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1995:649572 CAPLUS  
DN 123:141322  
TI IL-1.beta. regulates rat mesangial **cyclooxygenase** II gene  
expression by tyrosine phosphorylation  
AU Rzymkiewicz, Danuta M.; DuMaine, Jessica; Morrison, Aubrey R.  
CS Department Medicine, Washington University School Medicine, St. Louis,  
MO, USA  
SO Kidney International (1995), 47(5), 1354-63  
CODEN: KDYIA5; ISSN: 0085-2538  
DT Journal  
LA English

L11 ANSWER 88 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1995:252083 CAPLUS  
DN 122:25605  
TI Involvement of tyrosine kinase in the induction of cyclo-oxygenase and  
nitric oxide synthase by endotoxin in cultured cells  
AU Akaraseenont, P.; Mitchell, J. A.; Appleton, I.; Thiernemann, C.; Vane,  
J. R.  
CS William Harvey Res. Inst., St. Bartholomew's Hospital Med. College,  
London, EC1M 6BQ, UK  
SO British Journal of Pharmacology (1994), 113(4), 1522-8  
CODEN: BJPCBM; ISSN: 0007-1188  
PB Stockton  
DT Journal  
LA English

L11 ANSWER 89 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:153677 CAPLUS  
DN 120:153677  
TI Modulation of superoxide generation in in vivo lipopolysaccharide-primed  
Kupffer cells by staurosporine, okadaic acid, mannoalide, arachidonic  
acid,  
**genistein** and sodium orthovanadate  
AU Mayer, Alejandro M. S.; Spitzer, Judy A.  
CS Med. Cent., Louisiana State Univ., New Orleans, LA, USA  
SO Journal of Pharmacology and Experimental Therapeutics (1994), 268(1),  
238-47  
CODEN: JPETAB; ISSN: 0022-3565  
DT Journal  
LA English

L11 ANSWER 90 OF 94 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:130935 CAPLUS  
DN 120:130935  
TI Effects of signaling transduction modulators on the transformed  
phenotypes  
in v-H-ras-transformed NIH 3T3 cells  
AU Kuo, Min Liang; Kang, Jaw Jou; Yang, Nae Cherng  
CS Coll. Med., Natl. Taiwan Univ., Taipei, Taiwan  
SO Cancer Letters (Shannon, Ireland) (1993), 74(3), 197-202

CODEN: CALEDQ; ISSN: 0304-3835

DT Journal  
LA English

L11 ANSWER 91 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1993:622791 CAPLUS

DN 119:222791

TI Effects of **genistein**, a tyrosine kinase inhibitor, on platelet functions. **Genistein** attenuates thrombin-induced calcium mobilization in human platelets by affecting polyphosphoinositide turnover

AU Ozaki, Yukio; Yatomi, Yutaka; Jinnai, Yuki; Kume, Shoji

CS Dep. Clin., Yamanashi Med. Coll., Yamanashi, 409-38, Japan

SO Biochemical Pharmacology (1993), 46(3), 395-403

CODEN: BCPCA6; ISSN: 0006-2952

DT Journal

LA English

L11 ANSWER 92 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1993:421149 CAPLUS

DN 119:21149

TI Epidermal growth factor is a potent inhibitor of renin secretion

AU Antonipillai, Indra

CS Med. Cent., Univ. South. California, Los Angeles, CA, USA

SO Hypertension (1993), 21(5), 654-9

CODEN: HPRTDN; ISSN: 0194-911X

DT Journal

LA English

L11 ANSWER 93 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1992:584459 CAPLUS

DN 117:184459

TI Possible mechanism of immunosuppressive effect of scoparone (6,7-dimethoxycoumarin)

AU Huang, Huei Chen; Huang, Yu Lun; Chang, Jin Hsia; Chen, Ching Chow; Lee, Yuan Teh

CS Coll. Med., Natl. Taiwan Univ., Taipei, Taiwan

SO European Journal of Pharmacology (1992), 217(2-3), 143-8

CODEN: EJPHAZ; ISSN: 0014-2999

DT Journal

LA English

L11 ANSWER 94 OF 94 CAPLUS COPYRIGHT 2003 ACS

AN 1990:229824 CAPLUS

DN 112:229824

TI Interaction of phytoestrogens and other environmental estrogens with prostaglandin synthase in vitro.

AU Degen, Gisela H.

CS Inst. Toxicol., Univ. Wurzburg, Wurzburg, D-8700, Germany

SO Journal of Steroid Biochemistry (1990), 35(3-4), 473-9

CODEN: JSTBBK; ISSN: 0022-4731

DT Journal

LA English

=> s inhibition and cox2?

L13 480 INHIBITION AND COX2?

=> s inhibition and cox2(near2)flavone?

MISSING OPERATOR 'COX2 (NEAR2'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s inhibition and cox2(2w)flavone?

L14 0 INHIBITION AND COX2(2W) FLAVONE?.

=> s inhibition and cox2(2w)flavonoid?

L15 0 INHIBITION AND COX2(2W) FLAVONOID?

=> s flavonoid and cox2(2w)inhibition?

L16 1 FLAVONOID AND COX2(2W) INHIBITION?

=> d l16

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2001:827601 CAPLUS

DN 136:144649

TI Effects of naturally occurring prenylated **flavonoids** on enzymes  
metabolizing arachidonic acid: Cyclooxygenases and lipooxygenases

AU Chi, Yeon Sook; Jong, Hyon Gun; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam  
Sik; Kim, Hyun Pyo

CS College of Pharmacy, Kangwon National University, Chunchon, 200-701, S.  
Korea

SO Biochemical Pharmacology (2001), 62(9), 1185-1191

CODEN: BCPCA6; ISSN: 0006-2952

PB Elsevier Science Inc.

DT Journal

LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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